SOUTH AFRICAN RAILWAYS & HARBOURS.

SUID AFRIKAANSE SPOORWEË EN HAWENS.

LOCOMOTIVE DIAGRAM BOOK
LOKOMOTIEFDIAGRAMBOEK

2'-0" & 3'-6" GAUGE.
SPOORWYDTE.

STEAM LOCOMOTIVES
STOOMLOKOMOTIEWE

CHIEF MECHANICAL ENGINEER.
WERKTUIGKUNDIGE HOOFINGENIEUR.
15.8.41

S.A.R. S.A.S.

MECHANICAL DEPARTMENT
WERKTUIGKUNDIGE DEPT.,

DRAWING OFFICE., PRETORIA.
TEKENKANTOOR.,

DRAWN BY.	H.T.J.	—
" "	S.F.	—
" "	S.T.S.	—
" "	F.D.C.	—
CHECKED BY	W.H.J.A.	13-8-41
REFERENCE		11004 & 11004-3
DRAWER Nº		154.

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REF. ITEM.	CLASS.	PAGE.	ENGINE NUMBERS IN SERVICE AS AT 30-04-65.	ENGINES SCRAPPED, SOLD, RECLASSIFIED.
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		//	ENGINES FITTED WITH INCREASED DIAMETER COUPLED WHEELS.	
		§	ENGINES FITTED WITH EXTERNAL ADMISSION CYLINDERS TO DRGS. L-6108 AND L-9660.	
		B	SUFFIX "B" ADDED TO CLASS INDICATES ENGINE FITTED WITH REBALANCED COUPLED WHEELS FOR BRANCH LINE WORKING.	
		M.	SUFFIX "M" ADDED TO CLASS INDICATES ENGINE FITTED WITH REBALANCED COUPLED WHEELS FOR MAIN LINE WORKING.	
		R.	SUFFIX "R" ADDED TO CLASS INDICATES ENGINE FITTED WITH STANDARD BOILER.	
		W.	SUFFIX "W" ADDED TO CLASS INDICATES ENGINE FITTED WITH INTERNAL ADMISSION CYLINDERS TO DRG. L-7422.	

6a

KEY TO THE RECLASSIFICATION OF TENDERS.

INTERMEDIATE DRAW AND BUFFING GEAR.

(1ST LETTER.)

Class.	Type.	Class.	Type.
7–7 F	Z	14 C, 15 B, and MJ 1	L
5 B, 6, 6 A, 6 C, 6 D	Y	15 CA, 15 CB, 16 D and 16 DA	K
4 A, 5, 6 B, 6 E, 6 J, 8–8 F, 10–10 C, 11, and 20	X	15 E, 15 F, and 16 E	J
6 G and 8 X	W	18	H
1 A, 2 C, 3 and 3 B	T	8	G
1 and 2	S	21	F
12, 12 A, 12 B, 14, 14 A, 15, 15 A, 16–16 C, 19–19 D, 20 and MJ	M	23 25 NC. 15F (STOKER)	E
		25	C

CAPACITY.

(2ND LETTER.)

Water Capacity (Gallons).	Reference.	Water Capacity (Gallons).	Reference
2,220	A	3,675	
2,370	B	3,900	L
2,590–2,600	C	4,000	M
2,730–2,780	D	4200 4,250	Y P
2,800–2,855	E	4500 4,600	Y R
3,000	F	5,000	S
3,080	G	5,000 (25 CLASS) 5,587–6,000	Z T
3,225	H	6,000 7,250–7,500	X V
3,500	J	9,200–10,000	W
		10,500	W1
		10,090	W2

RECLASSFICATION OF TENDERS.

Existing Classification.	New Type.	Existing Classification.	New Typ
7 (6 Wheel)	ZB	1 ~~and 2~~ (New Tank)	SK
6 — 6 WHEEL TENDERS.	YB	1 A, ~~2 C~~, 3 and 3 B (New Tank)	TL
6 A, 6 C and 6 D — 6 WHEEL TENDERS.	YC	4 A (1551 – 1560)	XM
~~5 X, 6 Y~~ and ~~6 Z~~ — 6 WHEEL TENDERS.	YE	3 (1451–1475), 3 B and MC	XM
5 BR — 6 WHEEL TENDERS.	YE 1	5, 10–10 B, N 1–N 36 and 11	XM 2
7 (Bogie)	ZA	9 (729 – 731)	XM 3
10 C (Original)	XC	MF (~~1610–1627~~) (1630)	XM 4
6 B and 6 E	XC 1	19 A – 1964	MP
7 A–7 F	ZC	12, 12 A (4,250 Gal.), 12 B, 14, 14 A, 15, 15 A, 16–16 C, MC. 1, MH and MJ	MP 1
6 H and 6 J	XD		
6 G	WE	14 C, 15 B and MJ. 1 – 1964	LP
6B and 6E (New Tank)	XE	[12, 12 A (4,250 Gal.), 12 B, 14A, 15, 15 A and 16–16 C (Altered to Drg. L.–6780)]	MR
7 A–7 C (New Tank)	ZE		
8, 8 D–8 F, 8 Y, 8 Z and EXP 4	XE. 1	MF (~~1610–1627~~) 1623	XS
[6 H, 6 J, 8 D–8F, 8 Y, 8 Z, 10 C (Original) and EXP 4 (New Tank), ~~MF, 8 SA~~ 8A–8C (with Original Tank)]	XF	19	MS
		– /13428 – /13633 12 A (6,000 Gal.), 19 B–19 D and N 47–N 57	MT
N 37–N 46 TANK TO / 12928, FRAME L-DRGS.	XF. 1	15 CA, 15 CB, 16 D and 16 DA	KT
~~EXP 5 and~~ EXP 6 (1244)	XF. 2	15E, 15 F and 16 E. 15F (STOKER)	JT ET, E
~~8 SA and 8 SB~~	WG	18	~~HT~~ K
1 and 2	SH	S	GT
1 A, ~~2 C~~ and 3 (1446–1450)	TJ	~~21~~	~~FT~~
4 1477 & 14788	XJ	~~N 58~~	JV
		3	EW
		5 SNC	EW1
S1 (6,000 GALLS)	JT1 MV1	25NC (EX 25) 19D (6000 GAL.)	CZ EW2 MX MY

NOTES AND INSTRUCTIONS

1 FIRST LETTER OF TENDER TYPE INDICATES CLASSES OF ENGINES TO WHICH TENDER CAN BE COUPLED.

2. SECOND LETTER OF TENDER TYPE INDICATES THE WATER CAPACITY

3. THE DIGIT, WHERE ADDED, REPRESENTS DIFFERENCES BETWEEN SIMILAR TYPES, SUCH AS WHEELBASE, BUNKER CAPACITY, ETC.

4 TYPES OF TENDERS, OTHER THAN THOSE SPECIFIED ON THE ENGINE DIAGRAM MAY NOT BE COUPLED TO THE CLASS OF ENGINE CONCERNED, WITHOUT THE APPROVAL OF THE CHIEF CIVIL ENGINEER.

5 IN CERTAIN CASES, SLIGHT STRUCTURAL ALTERATIONS AS INDICATED BELOW WILL BE NECESSARY BEFORE SUBSTITUTION OF TENDER OF THE SAME INITIAL LETTER DESIGNATION CAN BE EFFECTED:-

(a) ALL PIPES BETWEEN ENGINE AND TENDER ARE TO BE ALTERED ON THE TENDERS ONLY, WHERE NECESSARY, TO SUIT THE CLASS OF ENGINE CONCERNED.

(b) FALLPLATE BETWEEN ENGINES AND TENDERS ARE TO BE OF SUFFICIENT LENGTH TO OBVIATE THE PLATE FALLING BETWEEN THE BUFFER BEAMS IN THE EVENT OF DRAWBAR FAILURE. IN THIS CONNECTION EMERGENCY CHAINS OR LINKS ARE TO BE ADJUSTED, WHERE NECESSARY.

(c) FALLPLATE HINGES ARE TO BE ATTACHED TO THE ENGINE, WHERE NECESSARY.

(d) THIS OFFICE IS TO BE ADVISED OF ANY DIFFICULTY EXPERIENCED IN COUPLING ANY COMBINATION OF ENGINE AND TENDER

(e) SPECIAL ATTENTION MUST BE PAID TO DRAWBAR CLEARANCE AND WHERE SUFFICIENT CLEARANCE S NOT PROVIDED FOR, ARRANGEMENTS SHOULD BE MADE TO CUT AWAY THE BUFFER BEAM WITHIN REASON, AND/OR INSERT A SUITABLE PACKING WASHER UNDER THE ENGINE END OF THE DRAWBAR, CARE BEING TAKEN THAT THE CLEARANCE BETWEEN THE DRAWBAR AND THE TOP OF THE OPENING IN TENDER IS AMPLE. (INSTRUCTION 3125, L-11460 OF 12-11-35)

6 TENDERS WHICH HAVE BEEN ALTERED TO SUIT ENGINES FITTED WITH RIGID PLATFORMS ARE TO BE RESERVED FOR SUCH ENGINES ONLY, UNLESS OTHERWISE INSTRUCTED.

TENDERS RECLASSIFIED DUE TO:-

(1) FITTING OF NEW TANKS.

FROM TYPE ZC TO TYPE ZE NEW TANK TO DRG. No L. 5618.
FROM TYPE XC I TO TYPE XE. NEW TANK TO DRG. No. L. 5618.
FROM TYPE XE I TO TYPE XF. NEW TANK TO DRG. No. L. 5076.
FROM TYPE SH TO TYPE SK. NEW TANK TO DRG. No. L. 6512.
FROM TYPE TJ AND TM TO TYPE TL. NEW TANK TO DRG No. L. 6512.

(2) ALTERATION TO EXISTING TANKS.

FROM TYPE MP. I TO TYPE MR ALTERATION TO DRG No L 6780.

(3) ALTERATION TO INTERMEDIATE DRAW AND BUFFING GEAR.

FROM TYPE TM TO TYPE XM I.
FROM TYPE MP I TO TYPE XP I.

(4) SUBDIVISION OF TYPE MT TENDERS.

FROM MT TO MTI- BUNKER TO DRG. No BL 608-13 TONS COAL.
FROM MT TO MT2 - BUNKER TO DRG. No. BL 652-14 TONS COAL.

(5) SUBDIVISION OF TYPE ET TENDERS

FROM ET TO ETI - BUNKER TO DRG. No. CME 2520/13-000 - 16 TONS COAL.

CLASS A.

HEATING SURFACE TUBES 888 SQ. FEET.
" " FIREBOX. 90 " "
TOTAL. 978 " "
FIREGRATE AREA. 16 " "
178 TUBES 1¾" EXT. DIA.
10'-10⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 18670 LBS.
DATE IN SERVICE (1888) (1900) (1916)
ENGINE Nos REFER INDEX ITEM 2.
TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR - STEPHENSON.

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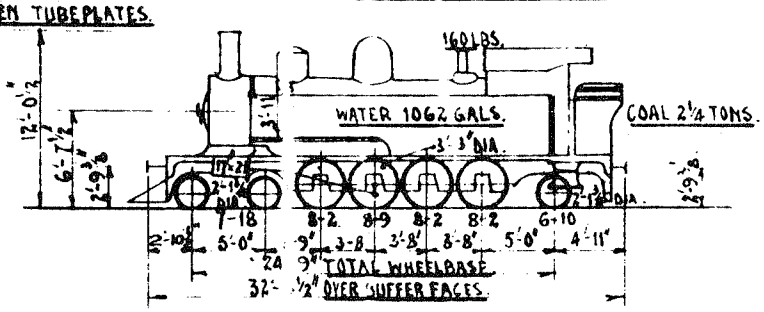

TOTAL WEIGHT OF ENGINE 47 TONS. 3CWT. WORKING ORDER.

CLASS A (BELPAIRE)

HEATING SURFACE TUBES. 930 SQ. FEET.
" " FIREBOX. 62 " "
TOTAL. 992 " "
FIREGRATE AREA. 24 " "
187 TUBES 1¾" EXT. DIA. 10'-10⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 18670 LBS.
DATE IN SERVICE (1888 - 1900) (1915).
ENGINE Nos REFER INDEX ITEM 1.
VALVE GEAR - STEPHENSON.
TOTAL WEIGHT OF ENGINE EMPTY - 93100 LBS.

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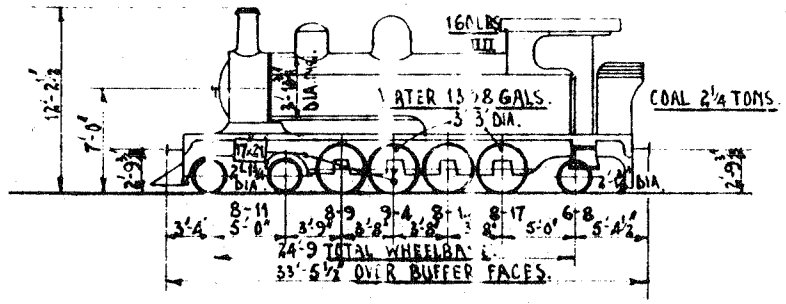

TOTAL WEIGHT OF ENGINE 50 TONS 3CWT. WORKING ORDER.

CLASS G.

HEATING SURFACE TUBES 1098 SQ. FEET.
" " FIREBOX. 125 " "
TOTAL 1223 " "
FIREGRATE AREA 19 " "
232 TUBES 1¾" EXT. DIA. 10'-4" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 22280 LBS.
DATE IN SERVICE 1904.
ENGINE Nos REFER INDEX ITEM 3.
TOTAL WEIGHT OF ENGINE EMPTY - 109080 LBS.
VALVE GEAR - STEPHENSON.

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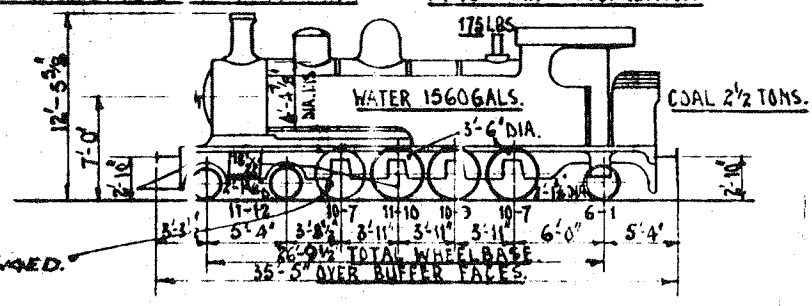

TOTAL WEIGHT OF ENGINE 60 TONS 6CWT WORKING ORDER.

CLASS H1 & H2.

HEATING SURFACE TUBES 1359 SQ FEET.
" " FIREBOX 135 " "
TOTAL 1494 " "
FIREGRATE AREA. 21 " "
287 TUBES 1¾" EXT. DIA.
10'-4" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 28430 LBS.
DATE IN SERVICE (1900) (1903).
ENGINE Nos H1 REFER INDEX ITEM 4
" " H2 " " " 5.
TOTAL WEIGHT OF ENGINE EMPTY - 116368 LBS.
VALVE GEAR - STEPHENSON.

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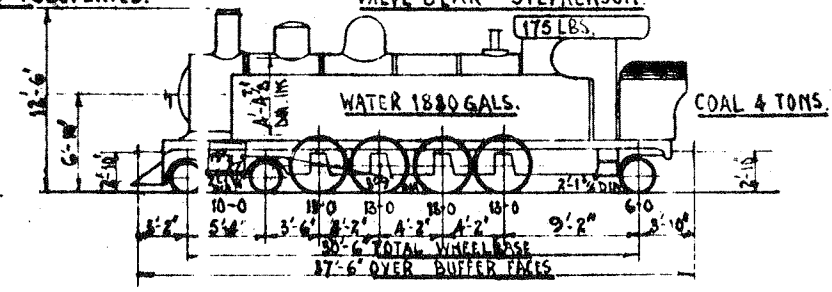

TOTAL WEIGHT OF ENGINE 68 TONS 0CWT. WORKING ORDER

CLASS J.

HEATING SURFACE TUBES 821 SQ. FEET.
" " FIREBOX 88 " "
" TOTAL 909 " "
FIREGRATE AREA 15 " "
171 TUBES 1¾" EXT. DIA.
10'-5¾" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 15,200 LBS.
DATE IN SERVICE 1915.
ENGINE Nos REFER INDEX ITEM 6.
TOTAL WEIGHT OF ENGINE EMPTY - 90832 LBS.
VALVE GEAR - WALSCHAERT.

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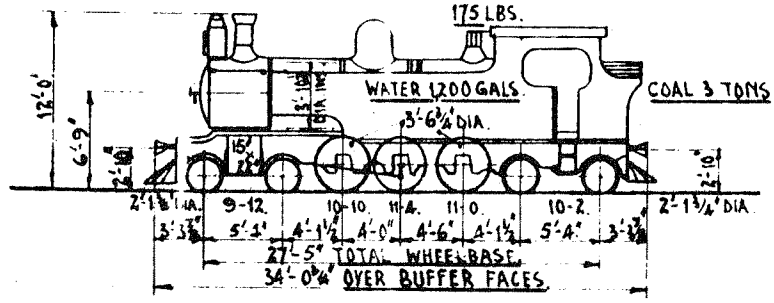

TOTAL WEIGHT OF ENGINE 52 TONS. 8 CWT. WORKING ORDER.

CLASS 1.

HEATING SURFACE TUBES 2,056 SQ. FEET.
" " FIREBOX 132 " "
" " TOTAL 2,188 " "
FIREGRATE AREA. 34 " "
325 TUBES 2" EXT. DIA.
12'-1" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31,240 LBS.
DATE IN SERVICE - (1904 - 1906)
ENGINE Nos REFER INDEX ITEMS 65 & 76.
TOTAL WEIGHT OF ENGINE EMPTY - 142,000 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPES SH; SK.

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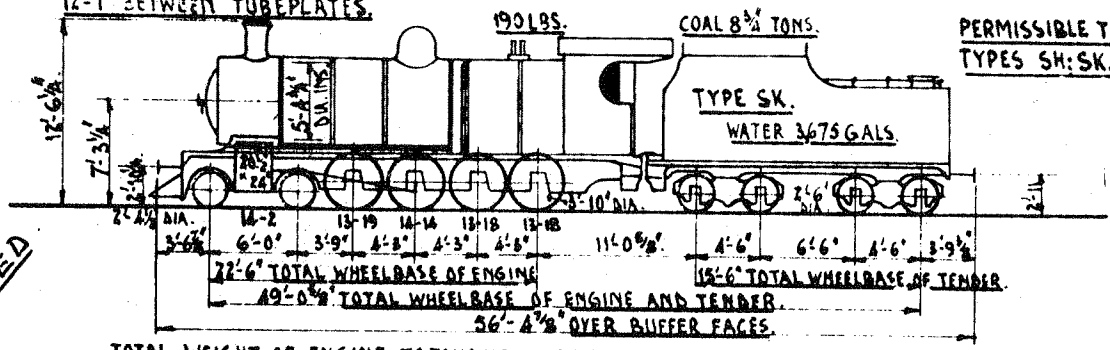

TOTAL WEIGHT OF ENGINE 70 TONS 11 CWT. TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

CLASS 1A.

HEATING SURFACE TUBES 2,056 SQ FEET.
" " FIREBOX 132 " "
" TOTAL 2,188 " "
FIREGRATE AREA 34 " "
325 TUBES 2" EXT. DIA.
12'-1" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31,240 LBS.
DATE IN SERVICE - 1910.
ENGINE Nos REFER INDEX ITEM 66.
TOTAL WEIGHT OF ENGINE EMPTY - 147,600 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPES TJ; TL; TM.

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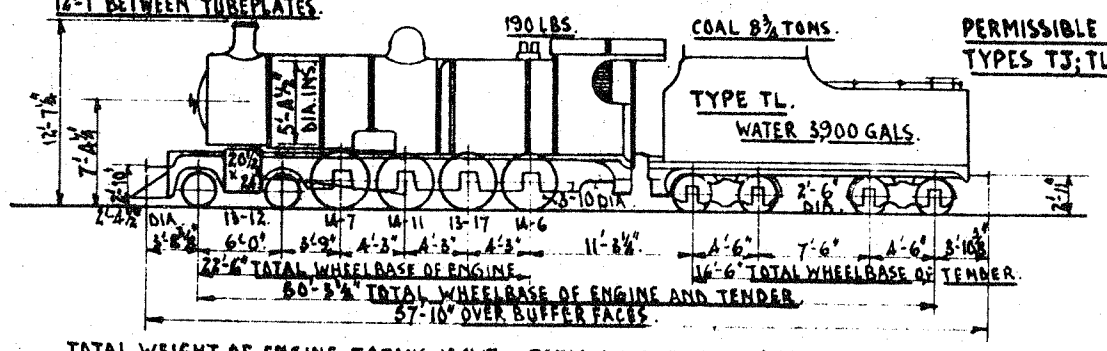

TOTAL WEIGHT OF ENGINE 70 TONS 13 CWT. TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

CLASS 3.

HEATING SURFACE TUBES 2,582 SQ FEET.
" " FIREBOX 139 " "
" TOTAL 2,721 " "
FIREGRATE AREA. 34 " "
237 TUBES 2¼" EXT. DIA.
18'-6 BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 32,790 LBS
DATE IN SERVICE - 1909 - 1910.
ENGINE Nos REFER INDEX ITEM 80
TOTAL WEIGHT OF ENGINE EMPTY - 163,200 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPE TJ; TL; TM.

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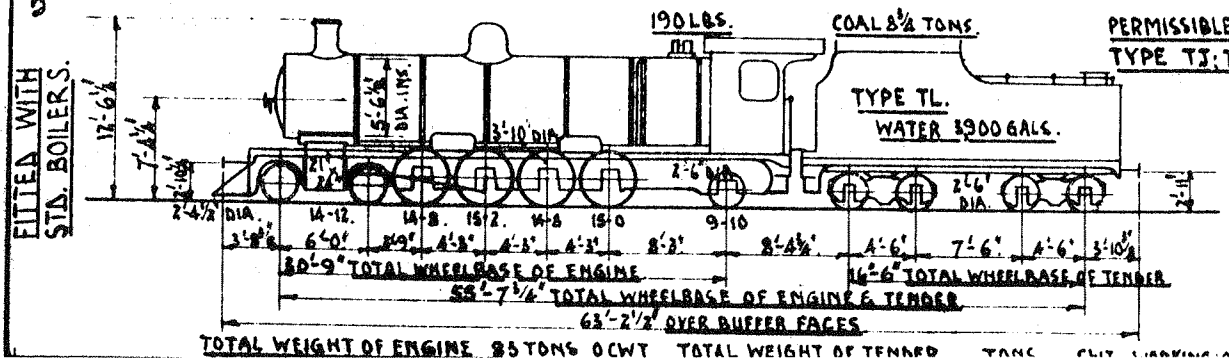

TOTAL WEIGHT OF ENGINE 85 TONS 0 CWT TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

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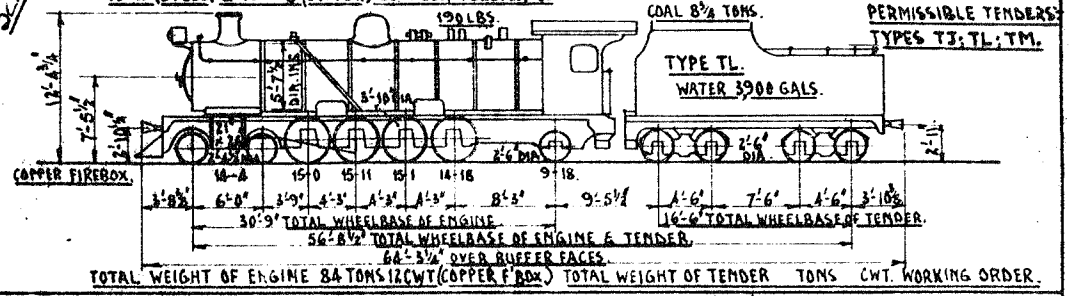
HEATING SURFACE TUBES 1933.5 SQ FEET.
" " FIREBOX 142 " "
" TOTAL 2075 " "
SUPERHEATER AREA 434 " "
FIREGRATE AREA 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 32,790 LBS. CLASS 3R.
DATE IN SERVICE - 1909-10. STANDARD B.R. No 2.
ENGINE Nos REFER INDEX ITEM 79.
TOTAL WEIGHT OF ENGINE EMPTY -
VALVE GEAR - WALSCHAERT.



PERMISSIBLE TENDERS:
TYPES TJ; TL; TM.

TOTAL WEIGHT OF ENGINE 84 TONS 12 CWT (COPPER F'BOX) TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

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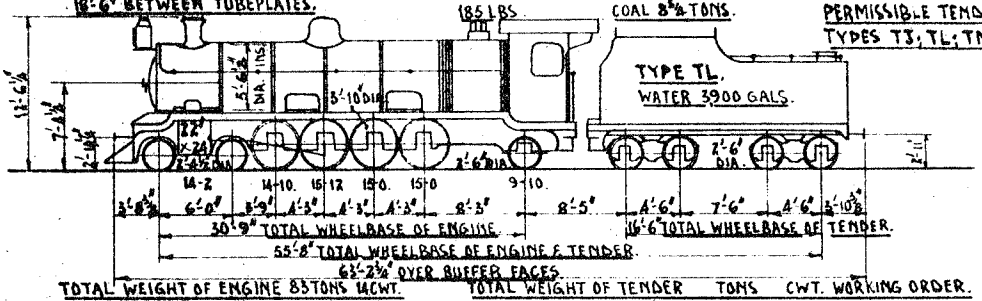
FITTED WITH STD. BOILER

HEATING SURFACE TUBES 2,110 SQ FEET.
" " FIREBOX 135 " "
" TOTAL 2,245 " "
SUPERHEATER AREA 617 " "
FIREGRATE AREA 34 " "
135 TUBES 2⅛" EXT. DIA. 24 TUBES 6½" EXT. DIA.
16'-6" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 35030 LBS. CLASS 3B.
DATE IN SERVICE - 1912.
ENGINE Nos REFER INDEX ITEM 82.
TOTAL WEIGHT OF ENGINE EMPTY - 172,500 LBS.
VALVE GEAR - WALSHAERT.


185 LBS.
COAL 8¾ TONS.
TYPE TL.
WATER 3900 GALS.
14-2 14-10 15-12 15-0 15-0 9-10
30'-9" TOTAL WHEELBASE OF ENGINE.
16'-6" TOTAL WHEELBASE OF TENDER.
55'-8" TOTAL WHEELBASE OF ENGINE & TENDER.
63'-2⅜" OVER BUFFER FACES.

PERMISSIBLE TENDERS:
TYPES TJ; TL; TM.

TOTAL WEIGHT OF ENGINE 83 TONS 14 CWT. TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

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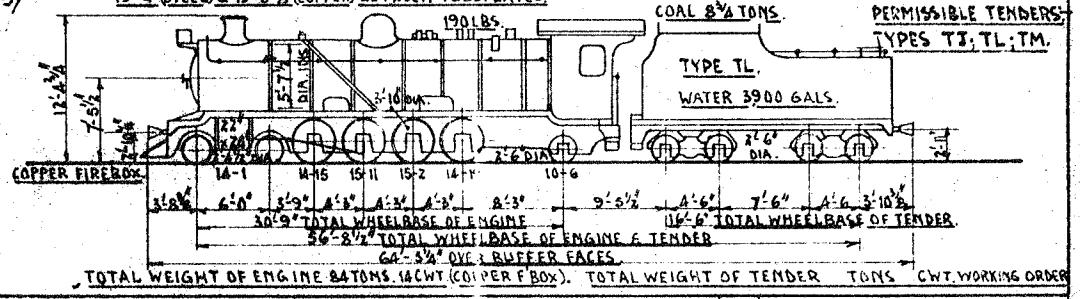
HEATING SURFACE TUBES 1933 SQ. FEET.
" " FIREBOX 142 " "
" TOTAL 2075 " "
SUPERHEATER AREA 492 " "
FIREGRATE AREA 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 35980 LBS. CLASS 3BR.
DATE IN SERVICE - 1912. STANDARD B.R. No 2.
ENGINE Nos REFER INDEX ITEM 81.
TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR - WALSCHAERT.



PERMISSIBLE TENDERS:
TYPES TJ; TL; TM.

TOTAL WEIGHT OF ENGINE 84 TONS. 14 CWT (COPPER F BOX). TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER

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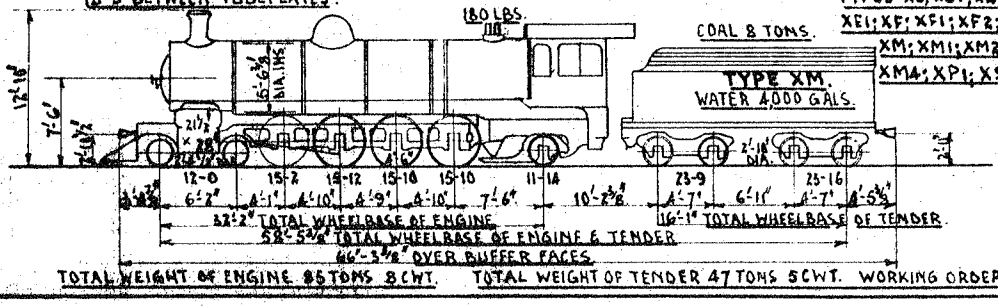
FITTED WITH STD BOILER

HEATING SURFACE TUBES 2,126 SQ. FEE
" " FIREBOX 184 " "
" TOTAL 2,310 " "
SUPERHEATER AREA 470 " "
FIREGRATE AREA 37 " "
144 TUBES 2¼" EXT. DIA. 22 TUBES 5⅛" EXT. DIA.
12'-3" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 32360 LBS. CLASS 4A.
DATE IN SERVICE - 1913. 1914.
ENGINE Nos REFER INDEX ITEM 88.
TOTAL WEIGHT OF ENGINE EMPTY - 171,136 LBS.
VALVE GEAR - WALSCHAERT.


180 LBS.
COAL 8 TONS.
TYPE XM.
WATER 4,000 GALS.
12-0 15-2 15-12 15-10 15-10 11-14 23-9 23-16
32'-2" TOTAL WHEELBASE OF ENGINE.
58'-5⅜" TOTAL WHEELBASE OF ENGINE & TENDER.
66'-3⅝" OVER BUFFER FACES.

PERMISSIBLE TENDERS:
TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.

TOTAL WEIGHT OF ENGINE 85 TONS 8 CWT. TOTAL WEIGHT OF TENDER 47 TONS 5 CWT. WORKING ORDER.

CLASS 4AR

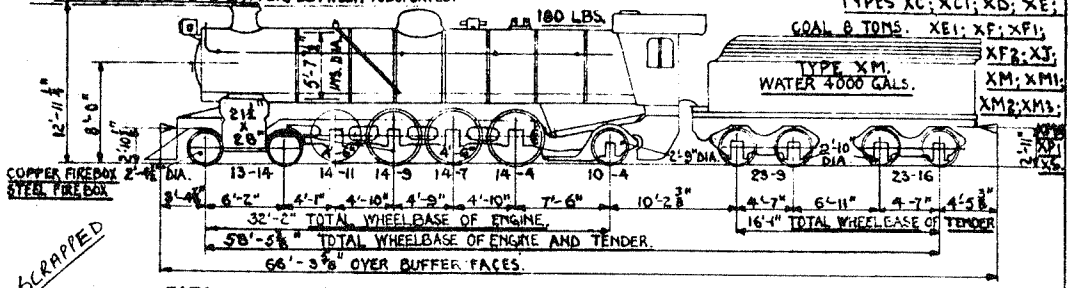
STD. BOILER No. 2.

HEATING SURFACE TUBES - 1933 SQ. FEET
" " FIREBOX - 142 " "
" " ARCH TUBES - —
" " TOTAL - 2075 " "
SUPERHEATER AREA - 492 " "
FIREGRATE AREA - 27½ " "
81 TUBES 5⅜" EXT. DIA. 30 TUBES 5¼" EXT. DIA.
19'-4" (STEEL) & 19'-5⅛" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 32360 LBS.
DATE IN SERVICE - 1913, 1914.
ENGINE Nos. REFER INDEX ITEM 87

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPES XC; XC1; XD; XE;
COAL 8 TONS. XE1; XF; XF1;
XF2; XJ;
TYPE XM. XM; XM1;
WATER 4000 GALS. XM2; XM3;



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TOTAL WEIGHT OF ENGINE. 81 TONS. 9 CWT. TOTAL WEIGHT OF TENDER. 47 TONS. 5 CWT. WORKING ORDER.

CLASS 5R.

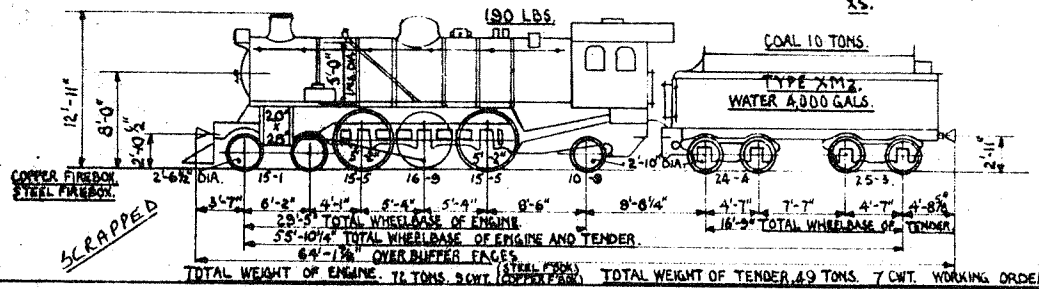
STD. BOILER No. 1.

HEATING SURFACE TUBES - 1497 SQ. FEET
" " FIREBOX - 123 " "
" " ARCH TUBES - —
" " TOTAL - 1620 " "
SUPERHEATER AREA - 366 " "
FIREGRATE AREA - 36 " "
76 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
17'-9" (STEEL) & 17'-8⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 25750 LBS.
DATE IN SERVICE - 1912.
ENGINE Nos. REFER INDEX ITEM 28.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES XC; XC1; XD; XE;
XE1; XF; XF1; XF2; XJ; XM;
XM1; XM2; XM3; XM4; XP1;
XS.



COAL 10 TONS.
TYPE XM2.
WATER 4000 GALS.

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TOTAL WEIGHT OF ENGINE. 72 TONS. 3 CWT. (STEEL FIREBOX) (COPPER FIREBOX) TOTAL WEIGHT OF TENDER. 49 TONS. 7 CWT. WORKING ORDER.

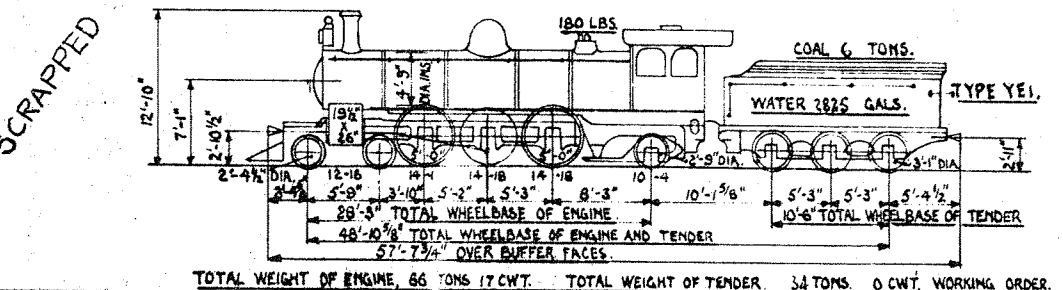
CLASS 5B.

HEATING SURFACE TUBES. 993 SQ. FEET
" " FIREBOX. 110 " "
" " TOTAL. 1103 " "
SUPERHEATER AREA. 324 " "
FIREGRATE AREA. 27 " "
17 TUBES 2" EXT. DIA. 18 TUBES 5⅜" EXT. DIA.
15'-0" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 22240 LBS.
DATE IN SERVICE. - 1904.
ENGINE Nos. REFER INDEX ITEM 20.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES YB; YC; YE; YE1.



COAL 6 TONS.
WATER 2825 GALS.
TYPE YE1.

SCRAPPED

TOTAL WEIGHT OF ENGINE. 66 TONS 17 CWT. TOTAL WEIGHT OF TENDER. 34 TONS. 0 CWT. WORKING ORDER.

CLASS 5BR.

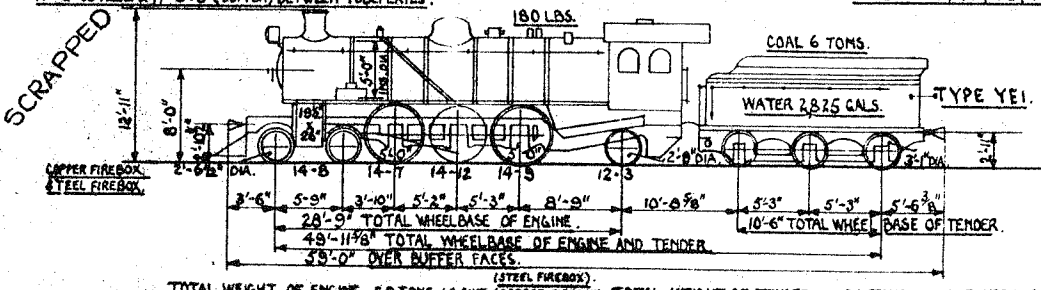
STD. BOILER No. 1.

HEATING SURFACE TUBES. 1497 SQ. FEET
" " FIREBOX. 123 " "
" " ARCH TUBES. —
" " TOTAL. 1620 " "
SUPERHEATER AREA. 366 " "
FIREGRATE AREA. 36 " "
76 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
17'-9" (STEEL) & 17'-8⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 22240 LBS.
DATE IN SERVICE - 1904.
ENGINE Nos. REFER INDEX ITEM 21.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES YB; YC; YE; YE1;



COAL 6 TONS.
WATER 2825 GALS.
TYPE YE1.

SCRAPPED

(STEEL FIREBOX).
TOTAL WEIGHT OF ENGINE. 69 TONS 10 CWT. (COPPER FIREBOX) TOTAL WEIGHT OF TENDER. 34 TONS. 0 CWT. WORKING ORDER.

CLASS 6.

HEATING SURFACE TUBES 946 SQ. FEET.
" " FIREBOX 95 " "
" " TOTAL 1041 " "
FIREGRATE AREA 17 " "
185 TUBES 1¾" DIA.
11'-2⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) ~~16700 LBS.~~ 18780 LBS
DATE IN SERVICE:- 1893-1894.
ENGINE Nos. REFER INDEX ITEM 8.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

T.F. 18780 LBS. WITH 180 LBS. B.P.

PERMISSIBLE TENDERS:-
COAL 5½ TONS TYPES YB; YC; YE YE1.
WATER 2,370 GALS. TYPE YB.

NOTE:- FOR ROUND TOP BOILER DETAILS SEE DIAGRAM CLASS 6A.

FOR BELPAIRE BOILER DETAILS SEE DIAGRAM CLASS 6C BELP.

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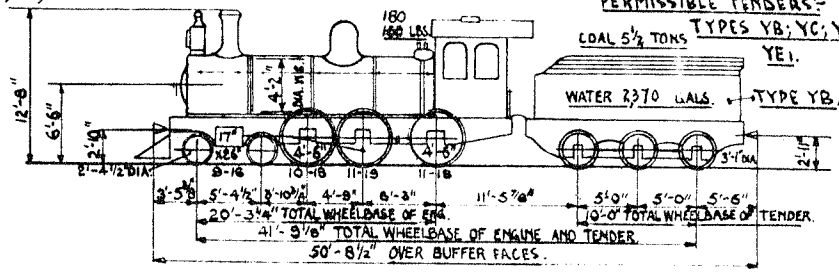

TOTAL WEIGHT OF ENGINE 44 TONS 11 CWT. TOTAL WEIGHT OF TENDER. 29 TONS. 11 CWT. WORKING ORDER.

CLASS 6A.

HEATING SURFACE TUBES. 1015 SQ. FEET.
" " FIREBOX 101 " "
" " TOTAL 1,116 " "
FIREGRATE AREA. 17 " "
185 TUBES 1⅞" EXT. DIA.
11'-2⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 18780 LBS.
DATE IN SERVICE:- 1896-1897.
ENGINE Nos. REFER INDEX ITEM 9.

TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES YB; YC; YE; YE1.

NOTE:- FOR BELPAIRE BOILER DETAILS SEE DIAGRAM CLASS 6C BELP.

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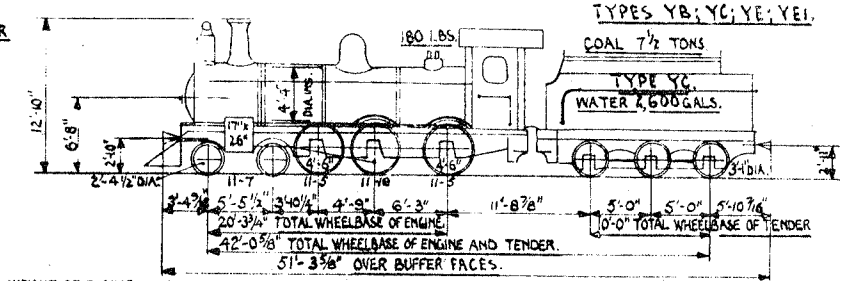

TOTAL WEIGHT OF ENGINE. 45 TONS. 15 CWT. TOTAL WEIGHT OF TENDER. TONS. CWT. WORKING ORDER.

CLASS 6B.

HEATING SURFACE TUBES. 1015 SQ. FEET.
" " FIREBOX 101 " "
" " TOTAL 1116 " "
FIREGRATE AREA. 17 " "
185 TUBES 1⅞" EXT. DIA.
11'-2⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) ~~16700 LBS.~~ 18780 LBS
DATE IN SERVICE:- 1897-1898
ENGINE Nos. REFER INDEX ITEM 10.

TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR - STEPHENSON.

T.F. 18780 LBS. WITH 180 LBS. B.P.

PERMISSIBLE TENDERS:-
COAL 8 TONS. TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; X1; XM; XM1; XM2; XM3
TYPE XE
WATER 2,850 GALS.

NOTE:- FOR ROUND TOP BOILER DETAILS SEE DIAGRAM CLASS 6A.

FOR BELPAIRE BOILER DETAILS SEE DIAGRAM CLASS 6C BELP.

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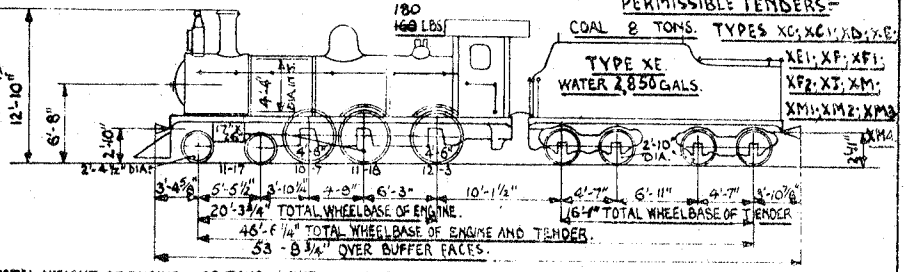

TOTAL WEIGHT OF ENGINE. 46 TONS CWT. TOTAL WEIGHT OF TENDER. TONS CWT. WORKING ORDER.

CLASS 6C.

HEATING SURFACE TUBES 1015 SQ. FEET.
" " FIREBOX 101 " "
" " TOTAL 1116 " "
FIREGRATE AREA 17 " "
185 TUBES 1⅞" EXT. DIA.
11'-2⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) ~~16700 LBS.~~ 18780 LBS
DATE IN SERVICE:- 1896-1897.
ENGINE Nos. REFER INDEX ITEM 11.

TOTAL WEIGHT OF ENGINE EMPTY 95,368 LBS.
VALVE GEAR - STEPHENSON.
T.F. 18780 LBS. WITH 180 LBS. B.P.

PERMISSIBLE TENDERS:-
COAL 7½ TONS. TYPES YB; YC; YE; YE1.
TYPE YC.
WATER 2,600 GALS.

NOTE:- FOR ROUND TOP BOILER DETAILS SEE DIAGRAM CLASS 6A.

FOR BELPAIRE BOILER DETAILS SEE DIAGRAM CLASS 6C BELP.

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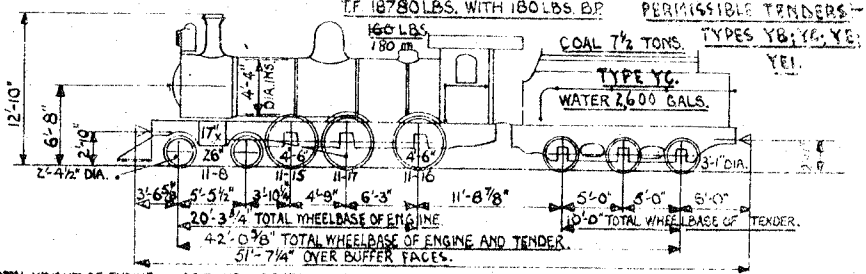

TOTAL WEIGHT OF ENGINE. ~~46~~ TONS, 16 CWT. TOTAL WEIGHT OF TENDER. TONS. CWT. WORKING ORDER.

CLASS 6C. BELPAIRE.

HEATING SURFACE TUBES	1288 SQ FEET.	928 SQ FT	
" " FIREBOX	111 " "	111 " "	
" " TOTAL	1399 " "	1039 " "	SUP
SUPERHEATER AREA	—	211 " "	B'R N'
FIREGRATE AREA.	17 " "	17 " "	TX15
		SAT. B'RS	

TRACTIVE FORCE (75%) 18780 LBS.
DATE IN SERVICE:- 1896-1897.
ENGINE Nos. REFER INDEX ITEM 11.
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES YB; YC; YE; YE1.

820 TUBES 2" EXT. DIA. (SAT.) - 409 TUBES 2" & 18 TUBES 5½" EXT. DIA. (SUP.)
11'-2⅛" BETWEEN TUBEPLATES.

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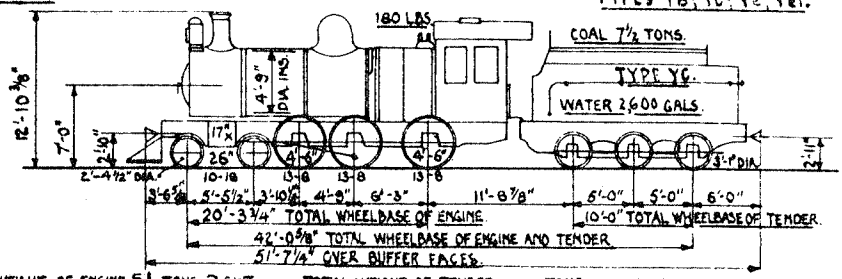

TOTAL WEIGHT OF ENGINE 51 TONS. 2 CWT. TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

CLASS 6D.

HEATING SURFACE TUBES 1,015 SQ. FEET.
" " FIREBOX 107 " "
" " TOTAL 1,122 " "
FIREGRATE AREA. 18 " "
185 TUBES 1⅞" EXT. DIA.
11'-2⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) ~~[illegible]~~ 17740 LBS.
DATE IN SERVICE:- 1898.
ENGINE Nos. REFER INDEX ITEM 12.

TOTAL WEIGHT OF ENGINE EMPTY:- 99,680 LBS.
VALVE GEAR - STEPHENSON.
FOR ENGS. WITH B.P. 180 LBS., T.F. 18780 LBS., SEE DIAGRAM CLASS 6H FOR DETAILS.

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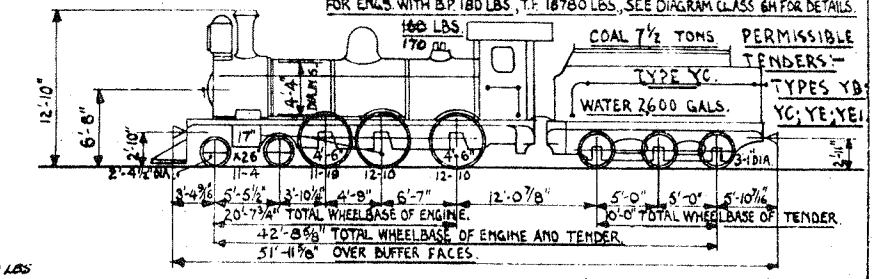

WITH 180 LBS BP TF 18780 LBS

TOTAL WEIGHT OF ENGINE 48 TONS. 3 CWT. TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

CLASS 6E.

HEATING SURFACE TUBES 1,015 SQ. FEET.
" " FIREBOX 101 " "
" " TOTAL 1,116 " "
FIREGRATE AREA. 17 " "
11'-2⅛" BETWEEN TUBEPLATES.
186 TUBES 1⅞" EXT. DIA.

TRACTIVE FORCE (75%) ~~16780 LBS.~~ 18780 LBS.
DATE IN SERVICE:- 1898.
ENGINE Nos. REFER INDEX ITEM 13.

TOTAL WEIGHT OF ENGINE EMPTY:- 97,552 LBS.
VALVE GEAR - STEPHENSON. T.F. 18780 LBS. WITH 180 LBS. B.P.

NOTE:- FOR ROUND TOP BOILER DETAILS SEE DIAGRAM CL.6A.
FOR BELP. BOILER DETAILS SEE DIAGRAM CL.6C BELP.

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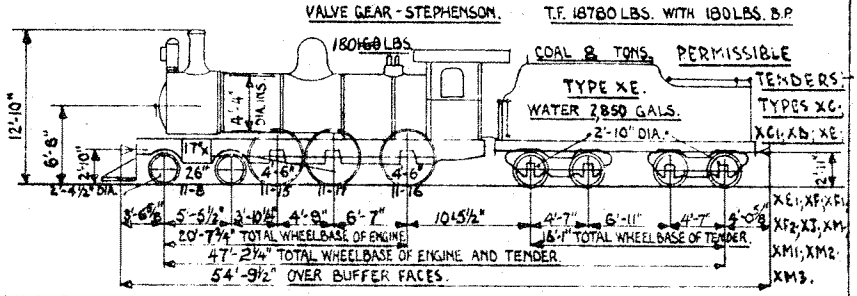

TOTAL WEIGHT OF ENGINE, 46 TONS. 16 CWT. TOTAL WEIGHT OF TENDER. TONS. CWT. WORKING ORDER.

CLASS 6G.

HEATING SURFACE TUBES 1,155 SQ. FEET.
" " FIREBOX. 112 " "
" " TOTAL. 1267 " "
FIREGRATE AREA. 19 " "
195 TUBES 2" EXT. DIA.
11'-4⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 19910 LBS.
DATE IN SERVICE:- 1901.
ENGINE Nos. REFER INDEX ITEM 14.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.
180 LBS.

PERMISSIBLE TENDERS:-
TYPES WE; WG.

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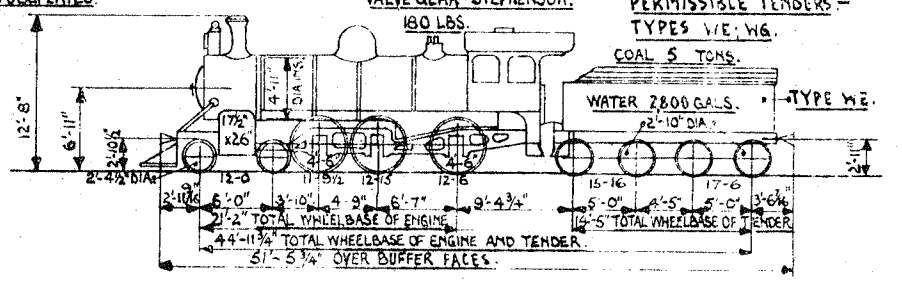

TOTAL WEIGHT OF ENGINE, 48 TONS. 10½ CWT. TOTAL WEIGHT OF TENDER 33 TONS. 2 CWT. WORKING ORDER.

CLASS 6H.

HEATING SURFACE TUBES 1,815 SQ. FEET.
" " FIREBOX 115 " "
" " TOTAL 1,180 " "
FIREGRATE AREA. 18 " "
186 TUBES 1⅞" EXT. DIA.
11-2" BETWEEN TUBEPLATES.

TRACTIVE EFFORT (75%) 18780 LBS.
DATE IN SERVICE:- 1901.
ENGINE Nos. REFER INDEX ITEM 15.

TOTAL WEIGHT OF ENGINE EMPTY:- 99,904 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1;

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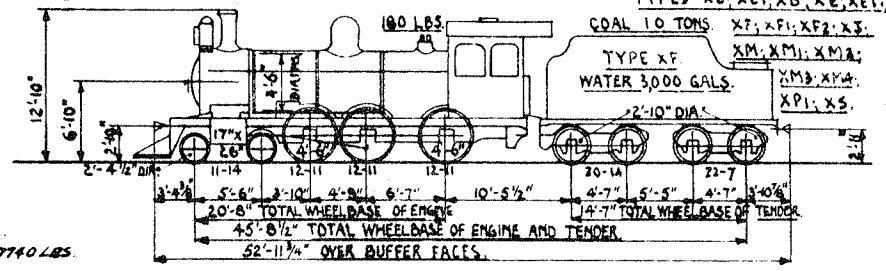

WITH 170 LBS BP, TE 17740 LBS.

TOTAL WEIGHT OF ENGINE 48 TONS. 7 CWT.
TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 6J.

HEATING SURFACE TUBES. 1,065 SQ. FEET.
" " FIREBOX 108 " "
" " TOTAL 1,173 " "
FIREGRATE AREA. 19 " "
182 TUBES 2" EXT. DIA.
11-2⅛" BETWEEN TUBEPLATES.

TRACTIVE EFFORT (75%) 18780 LBS.
DATE IN SERVICE:- 1902
ENGINE Nos. REFER INDEX ITEM 16.

TOTAL WEIGHT OF ENGINE EMPTY:- 99,120 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF

NOTE:- FOR CLASS 6J ENGINES FITTED WITH 6H BOILERS SEE DIAGRAM CLASS 6H FOR BOILER DETAILS.

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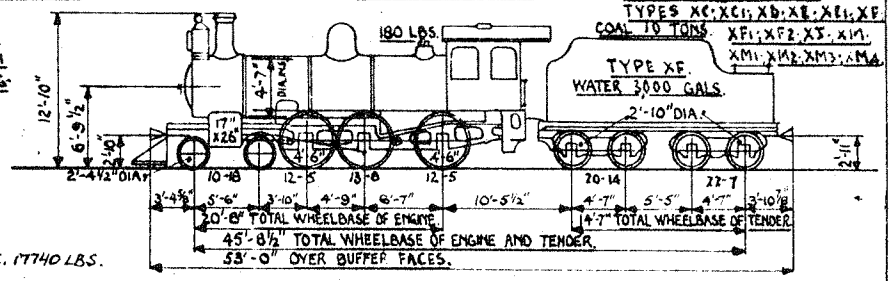

WITH 170 LBS BP, T.E. 17740 LBS.

TOTAL WEIGHT OF ENGINE. 48 TONS. 16 CWT.
TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 7.

HEATING SURFACE TUBES. 911 SQ. FEET.
" " FIREBOX 99 " "
" " TOTAL 1,010 " "
FIREGRATE AREA. 18 " "
186 TUBES 1⅜" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

SEE CL. 7A

TRACTIVE FORCE (75%) ~~18660 LBS.~~ SEE CL 7A & 7D
DATE IN SERVICE:- 1892-1893.
ENGINE Nos. REFER INDEX ITEM 44.

TOTAL WEIGHT OF ENGINE EMPTY:- 92,176 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES ZA; ZB; ZC; ZE.

NOTE:- FOR ENGINES WITH BP. 160 LBS. T.F. = 20990 LBS. FOR ENGS. WITH SUP. BLRS. SEE DIAGRAM CLASS 7C SUP. FOR BOILER DETAILS AND AXLE LOADS.

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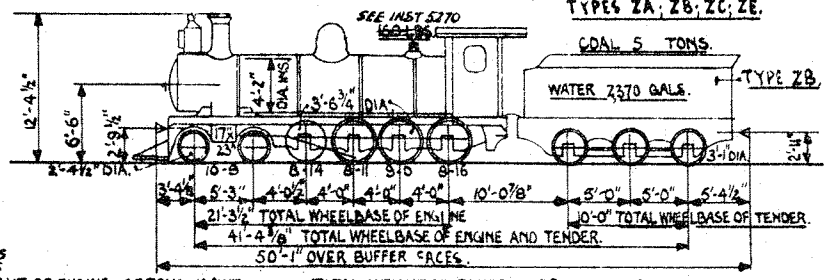

WITH BP 160 LBS, TE 18660 LBS
" " 170 LBS, TE 19810 LBS

TOTAL WEIGHT OF ENGINE. 45 TONS. 10 CWT.
TOTAL WEIGHT OF TENDER 29 TONS. 1 CWT. WORKING ORDER.

CLASSES 7A & 7D.

HEATING SURFACE TUBES 976 SQ. FEET.
" " FIREBOX 102 " "
" " TOTAL 1078 " "
FIREGRATE AREA 18 " "
185 TUBES 1⅜" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 18660 LBS.
DATE IN SERVICE:- 1896-1901.
ENGINE Nos. REFER INDEX ITEM 45 FOR CL. 7A.
" " " 69 " CL. 7D.

TOTAL WEIGHT OF ENGINE EMPTY:- 92,764 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES ZA; ZB; ZC; ZE.

NOTE:- FOR ENGINES WITH B.P. 160 LBS. T.F. = 20990 LBS. FOR ENGS. WITH SUP. BLRS. SEE DIAGRAM CL. 7C SUP. FOR BOILER DETAILS AND AXLE LOADS.

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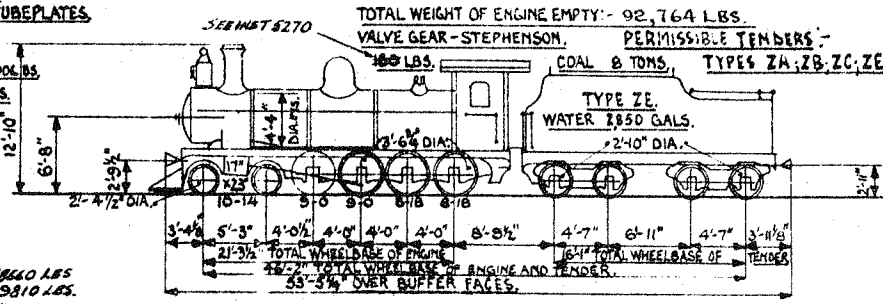

WITH BP 160 LBS, TE 18660 LBS
" " 170 LBS, TE 19810 LBS.

TOTAL WEIGHT OF ENGINE. 46 TONS. 10 CWT.
TOTAL WEIGHT OF TENDER. TONS. CWT. WORKING ORDER.

CLASS 7B.

HEATING SURFACE TUBES 976 SQ. FEET.
" " FIREBOX 102 " "
" " TOTAL 1078 " "
FIREGRATE AREA 18 " "
185 TUBES 1⅞" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

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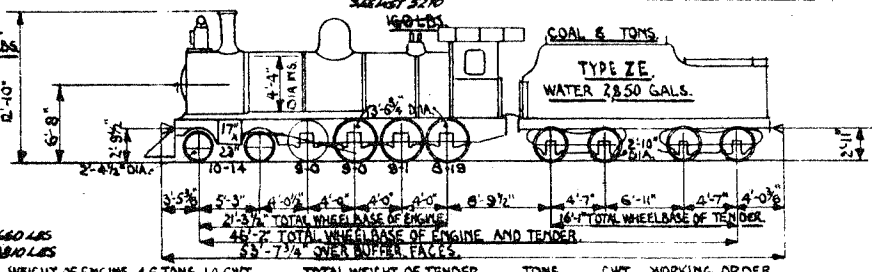
TRACTIVE FORCE (75%) 18660 LBS. SEE CL. 7A & 7D
DATE IN SERVICE: 1900
ENGINE Nos. 1611 BUILT 1900 (1611 & 1612)
WEIGHT OF ENGINE EMPTY 92,764 LBS.
VALVE GEAR STEPHENSON

PERMISSIBLE TENDERS:-
TYPES ZA; ZB; ZC; ZE.

NOTE:- FOR ENGINES WITH B.P. 180 LBS. T.F. 20990 LBS. FOR ENGINES WITH SUP. BOILERS SEE DIAG. CLASS 7C SUP. FOR BOILERS DETAILS AND AXLE LOADS.

WITH B.P. 160 LBS, T.E. 18660 LBS
" " 170 LBS, T.E. 19810 LBS



TOTAL WEIGHT OF ENGINE 46 TONS 14 CWT. TOTAL WEIGHT OF TENDER TONS. CWT. WORKING ORDER.

CLASS 7C.

HEATING SURFACE TUBES. 976 SQ. FEET.
" " FIREBOX. 113 " "
" " TOTAL. 1089 " "
FIREGRATE AREA. 18 " "
185 TUBES 1⅞" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

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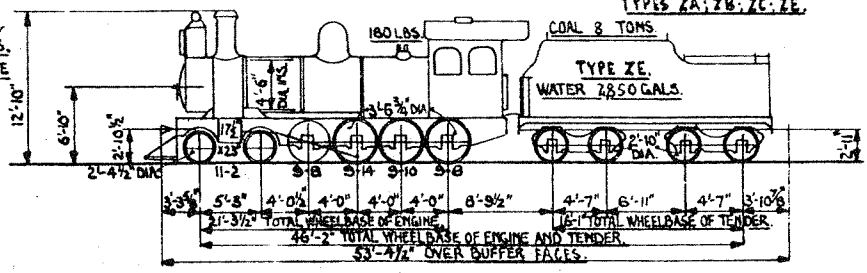
TRACTIVE FORCE (75%) 22240 LBS.
DATE IN SERVICE:- 1902.
ENGINE Nos. REFER INDEX ITEM 47.
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES ZA; ZB; ZC; ZE.

NOTE:- FOR ENGINES WITH B.P. 160 LBS. T.F. = 19770 LBS. FOR ENG. WITH PISTON VALVE CYLS. AND B.P. 180 LBS. T.F. = 20990 LBS. FOR ENGS. WITH SUP. BOILERS SEE DIAGRAM CLASS 7C SUP. FOR BOILER DETAILS AND AXLE LOADS.



TOTAL WEIGHT OF ENGINE 49 TONS 2 CWT. TOTAL WEIGHT OF TENDER TONS. CWT. WORKING ORDER.

CLASS 7C SUP.

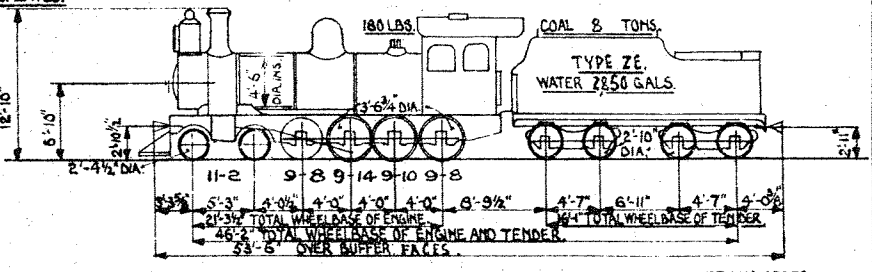
HEATING SURFACE TUBES. 806 SQ. FEET.
" " FIREBOX 113 " "
" " TOTAL 919 " "
SUPERHEATER AREA. 206 " "
FIREGRATE AREA. 18 " "
100 TUBES 1⅞" & 18 TUBES 5½" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 22240 LBS.
DATE IN SERVICE:- 1902
BOILER Nos. 7241 & 8579-8591
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES ZA; ZB; ZC; ZE.

NOTE:- FOR ENGINES WITH B.P. 160 LBS. T.F. = 19770 LBS. FOR ENGS. WITH PISTON VALVE CYLS. AND B.P. 180 LBS. T.F. = 20990 LBS.



TOTAL WEIGHT OF ENGINE 49 TONS. 2 CWT. TOTAL WEIGHT OF TENDER TONS. CWT. WORKING ORDER.

CLASS 7E.

HEATING SURFACE TUBES 976 SQ. FEET.
" " FIREBOX 102 " "
" " TOTAL 1078 " "
FIREGRATE AREA. 18 " "
185 TUBES 1⅞" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

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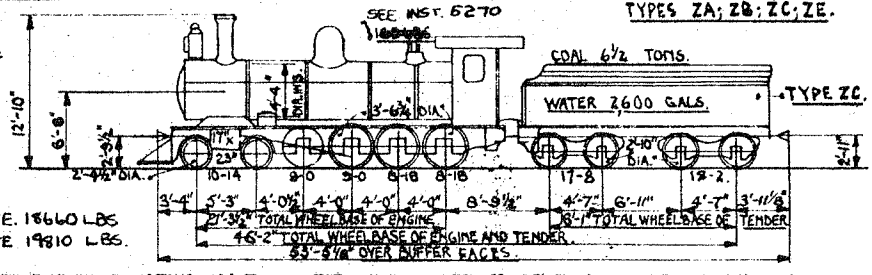
TRACTIVE FORCE (75%) 18550 LBS. SEE CL. 7A & 7D
DATE IN SERVICE:- EX N.C.G.R.
ENGINE Nos. REFER INDEX ITEM 68.
TOTAL WEIGHT OF ENGINE EMPTY:- 95,312 LBS.
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:-
TYPES ZA; ZB; ZC; ZE.

NOTE:- FOR ENGINES WITH B.P. 180 LBS. T.F. = 20990 LBS. SEE DIAGRAMS CLASS 7C AND CLASS 7C SUP. FOR BOILER DETAILS AND AXLE LOADS.

WITH B.P. 160 LBS, TE. 18660 LBS
" " 170 LBS, TE 19810 LBS.



TOTAL WEIGHT OF ENGINE 46 TONS. 10 CWT. TOTAL WEIGHT OF TENDER 35 TONS. 10 CWT. WORKING ORDER.

CLASS 7F

HEATING SURFACE TUBES 976 SQ. FEET.
" " FIREBOX. 119 " "
" " TOTAL 1095 " "
FIREGRATE AREA. 18 " "
185 TUBES 1⅞" EXT. DIA.
10'-9" BETWEEN TUBEPLATES.

TRACTIVE EFFORT (75%) 22240 LBS
DATE IN SERVICE:- EX M.C.C.R.
ENGINE Nos.:- REFER INDEX ITEM 70.
TOTAL WEIGHT OF ENGINE EMPTY:- 406,232 LBS.
VALVE GEAR:- STEPHENSON.

PERMISSIBLE TENDERS:- TYPES ZA; ZB; ZC; ZE.

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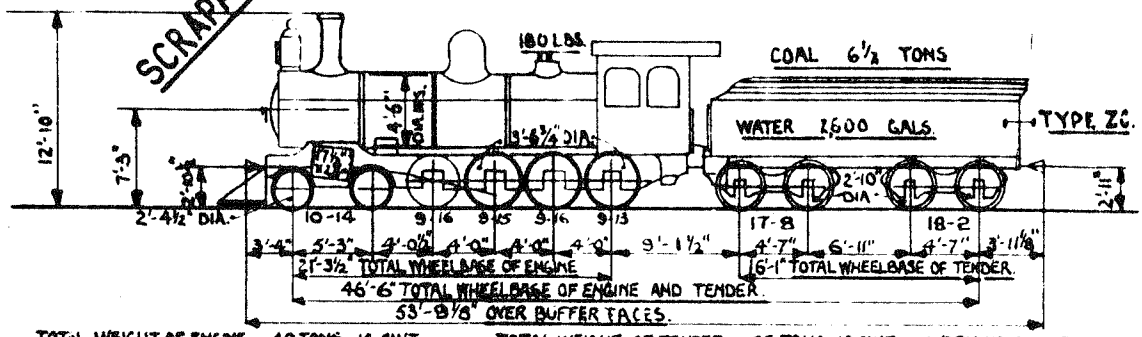

TOTAL WEIGHT OF ENGINE. 49 TONS. 14 CWT. TOTAL WEIGHT OF TENDER. 35 TONS. 10 CWT. WORKING ORDER.

CLASS 8.

HEATING SURFACE TUBES. 1184 SQ. FEET.
" " FIREBOX. 131 " "
" " TOTAL 1,315 " "
FIREGRATE AREA. 21 " "
205 TUBES 2" EXT. DIA.
11'-0⅜" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1902-3.
ENGINE Nos.:- REFER INDEX ITEM 48.
TOTAL WEIGHT OF ENGINE EMPTY:- 114,464 LBS.
VALVE GEAR:- STEPHENSON.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XF; XF1; XF2; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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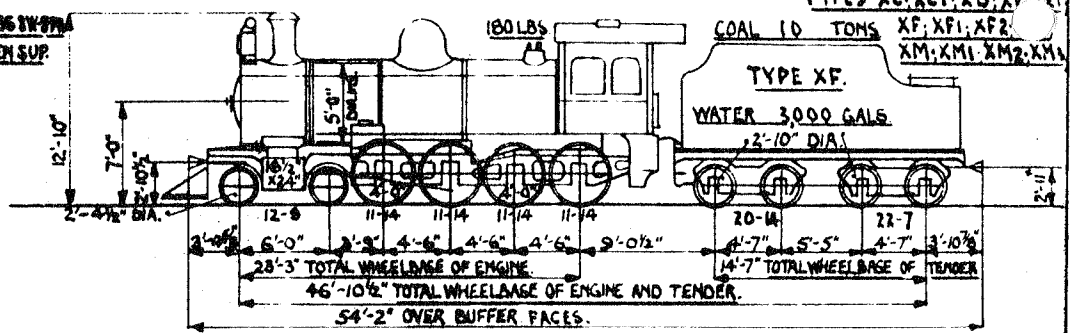

TOTAL WEIGHT OF ENGINE. 69 TONS. 5 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 8A.

HEATING SURFACE TUBES. 1184 SQ. FEET.
" " FIREBOX. 131 " "
" " TOTAL 1,315 " "
FIREGRATE AREA. 21 " "
205 TUBES 2" EXT. DIA.
11'-0⅜" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1902.
ENGINE Nos.:- REFER INDEX ITEM 50.
TOTAL WEIGHT OF ENGINE EMPTY:- 114,464 LBS.
VALVE GEAR - STEPHENSON.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XT; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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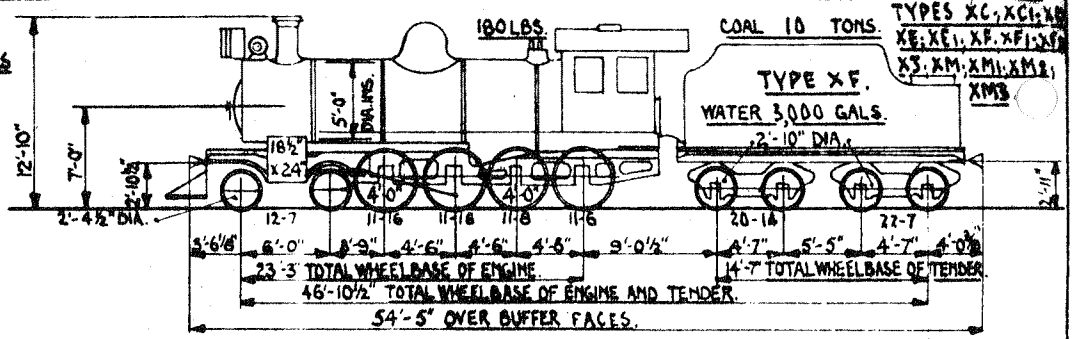

TOTAL WEIGHT OF ENGINE. 58 TONS 13 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 8B.

HEATING SURFACE TUBES. 1262 SQ. FEET.
" " FIREBOX. 125 " "
" " TOTAL 1387 " "
FIREGRATE AREA. 21 " "
197 TUBES 2" EXT. DIA.
11'-0½" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1903.
ENGINE Nos.:- REFER INDEX ITEM 53.
TOTAL WEIGHT OF ENGINE EMPTY:- 120,288 LBS.
VALVE GEAR - STEPHENSON

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XT; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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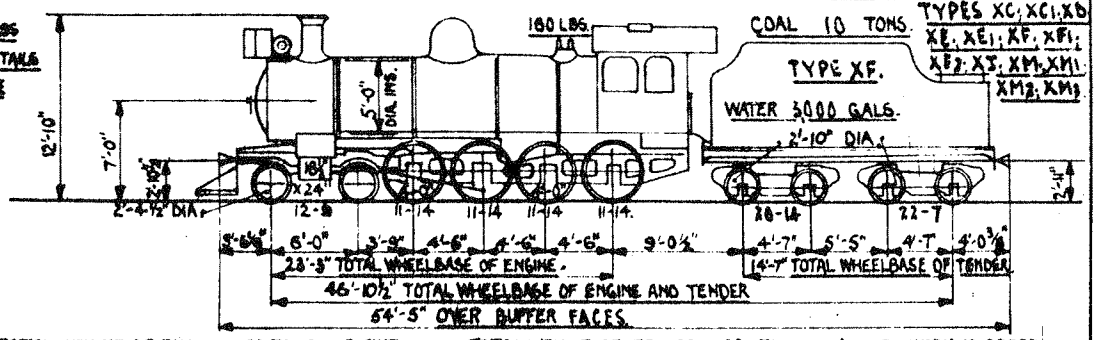

TOTAL WEIGHT OF ENGINE. 58 TONS. 5 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 9C

HEATING SURFACE TUBES 1184 SQ. FEET.
" " FIREBOX 130 " "
" " TOTAL 1314 " "
FIREGRATE AREA 21 " "
205 TUBES 2" EXT. DIA.
11'-0½" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1903.
ENGINE Nos. REFER INDEX ITEM 56.
TOTAL WEIGHT OF ENGINE EMPTY:- 117,488 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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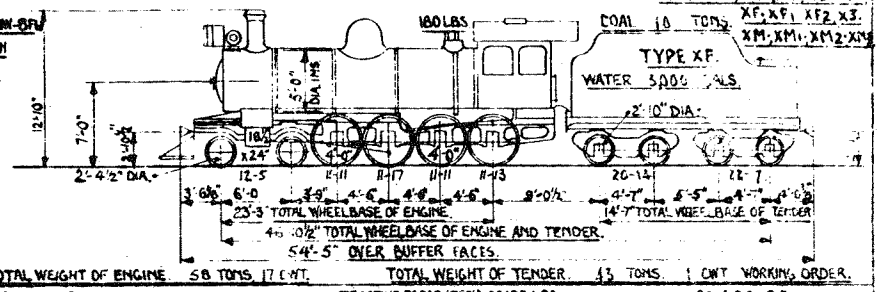

TOTAL WEIGHT OF ENGINE 58 TONS 17 CWT. TOTAL WEIGHT OF TENDER 43 TONS. 1 CWT. WORKING ORDER.

CLASS 8D

HEATING SURFACE TUBES 1185 SQ. FEET.
" " FIREBOX 133 " "
" " TOTAL 1318 " "
FIREGRATE AREA 21 " "
205 TUBES 2" EXT. DIA.
11'-0½" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1903.
ENGINE Nos. REFER INDEX ITEM 60.
TOTAL WEIGHT OF ENGINE EMPTY:- 117,376 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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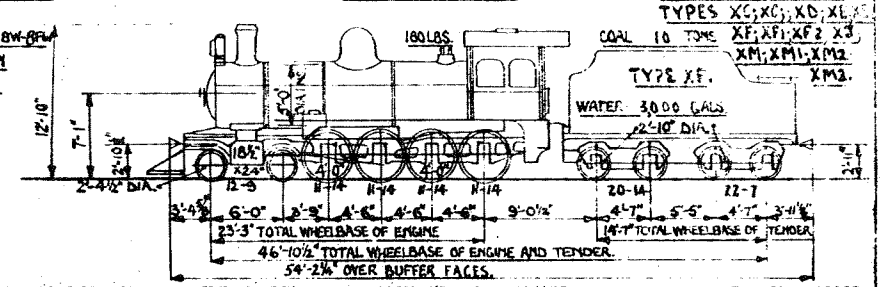

TOTAL WEIGHT OF ENGINE. 59 TONS. 5 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 8E.

HEATING SURFACE TUBES 1184 SQ. FEET.
" " FIREBOX 137 " "
" " TOTAL 1321 " "
FIREGRATE AREA 21 " "
205 TUBES 2" EXT. DIA.
11'-0¼" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1903.
ENGINE Nos. REFER INDEX ITEM 62.
TOTAL WEIGHT OF ENGINE EMPTY:- 117,376 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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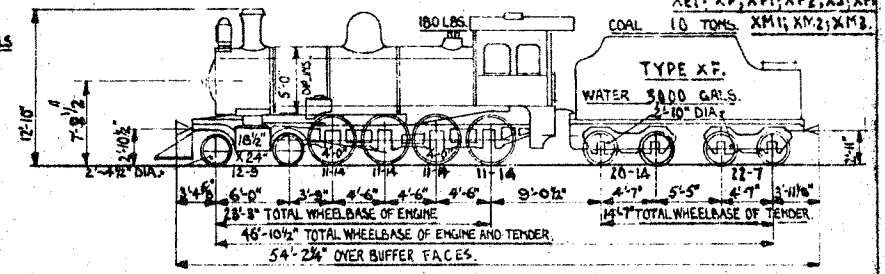

TOTAL WEIGHT OF ENGINE. 59 TONS. 5 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 8F.

HEATING SURFACE TUBES 1184 SQ. FEET.
" " FIREBOX 137 " "
" " TOTAL 1321 " "
FIREGRATE AREA 21 " "
205 TUBES 2" EXT. DIA.
11'-0¼" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE:- 1904.
ENGINE Nos. REFER INDEX ITEM 63.
TOTAL WEIGHT OF ENGINE EMPTY:- 118,720 LBS.
VALVE GEAR - STEPHENSON.
PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3.

NOTE:- SEE DIAGRAM CLASS 8W-8FW FOR BOILER DETAILS WHEN SUP. BOILERS ARE FITTED.

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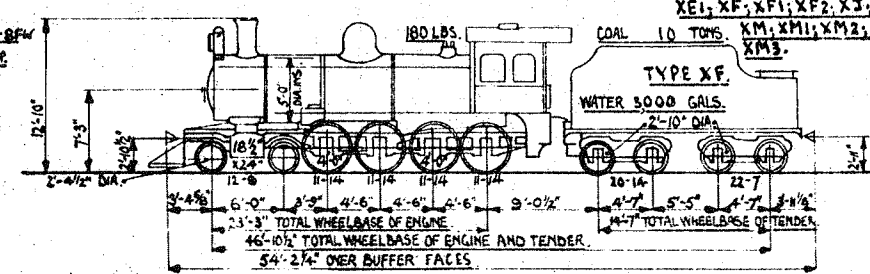

TOTAL WEIGHT OF ENGINE. 59 TONS. 5 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 8X.

11

HEATING SURFACE TUBES 1267 SQ. FEET.
" " FIREBOX 129 " "
" " TOTAL 1396 " "
FIREGRATE AREA 20 " "
194 TUBES 2" EXT. DIA.
12'-5⅜" BETWEEN TUBE PLATES.

TRACTIVE FORCE (75%) 23100 LBS.
DATE IN SERVICE :- 1902
ENGINE Nos. 894. (INDEX ITEM A1).
TOTAL WEIGHT OF ENGINE EMPTY :-
VALVE GEAR - STEPHENSON.

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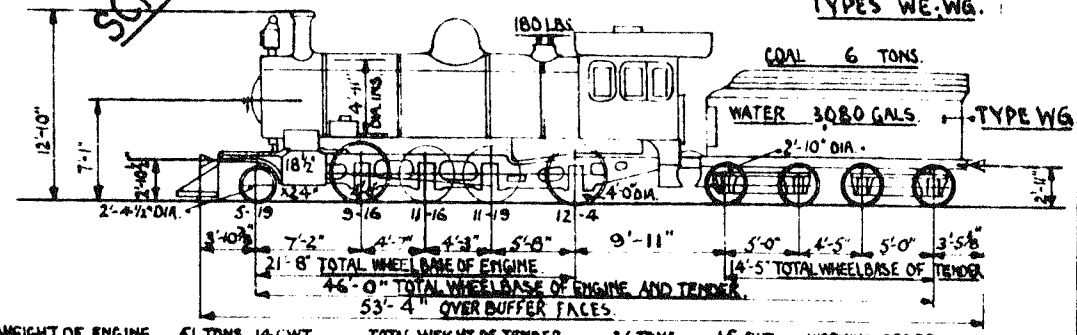
PERMISSIBLE TENDERS:- TYPES WE. WG.



TOTAL WEIGHT OF ENGINE 51 TONS, 14 CWT. TOTAL WEIGHT OF TENDER 36 TONS. 15 CWT. WORKING ORDER.

HEATING SURFACE TUBES 950 SQ. FEET.
" " FIREBOX 131 " "
" " TOTAL 1081 " "
SUPERHEATER AREA 214 " "
FIREGRATE AREA 21 " "
115 TUBES 2" EXT. DIA. 18 TUBES 5½" EXT. DIA.
11'-0⅜" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 24370 LBS
DATE IN SERVICE :
ENGINE Nos
REFER INDEX ITEM 51 FOR CL 8A.
" " " 55 " CL 8B.
" " " 58 " CL 8C.
" " " 59 " CL 8D.

CLASS 8. 8A 8B 8C. 8D. 8E. 8F.
SUPERHEATER (PISTON VALVE CYL.)
(CYLS. TO L-6108 & L-9660)

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3.

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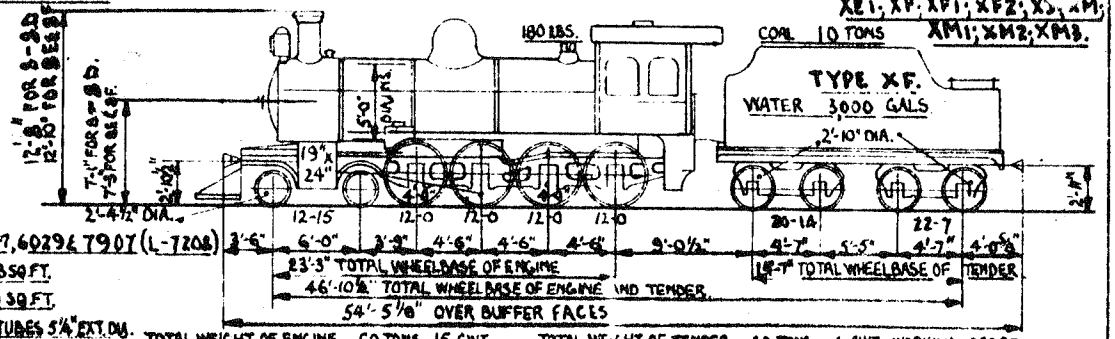

NOTE :- FOR BOILERS 8596-7, 60296 7907 (L-7208)
SUPERHEATER AREA = 2435 SQ FT.
HEATING SURFACE = 950 SQ FT.
125 TUBES 1¾" DIA & 21 TUBES 5¼" EXT. DIA.

TOTAL WEIGHT OF ENGINE 60 TONS, 15 CWT. TOTAL WEIGHT OF TENDER 43 TONS. 1 CWT. WORKING ORDER.

HEATING SURFACE TUBES 950 SQ. FEET.
" " FIREBOX 131 " "
" " TOTAL 1081 " "
SUPERHEATER AREA 214 " "
FIREGRATE AREA 21 " "
115 TUBES 2" EXT. DIA. 18 TUBES 5½" EXT. DIA.
11'-0⅜" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 27000 LBS
DATE IN SERVICE :
ENGINE Nos REFER INDEX ITEM 49 FOR CL 8AW.
REFER INDEX ITEM 52 FOR CL 8AW.
" " " 54 " " 8BW.
" " " 57 " " 8CW.
" " " 61 " " 8DW.
" " " 64 " " 8FW.

CLASS 8W. 8AW. 8BW. 8CW. 8DW. 8EW. 8FW.
(SUP. & CYLS. TO L-7422/2).

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3.

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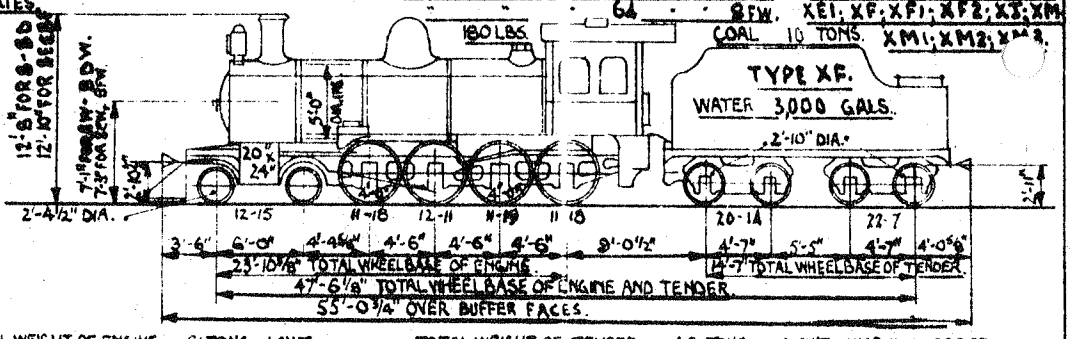


COPPER FIREBOX
STEEL FIREBOX.

TOTAL WEIGHT OF ENGINE. 61 TONS. 1 CWT. TOTAL WEIGHT OF TENDER. 43 TONS. 1 CWT. WORKING ORDER.

CLASS 10

SUPERHEATER

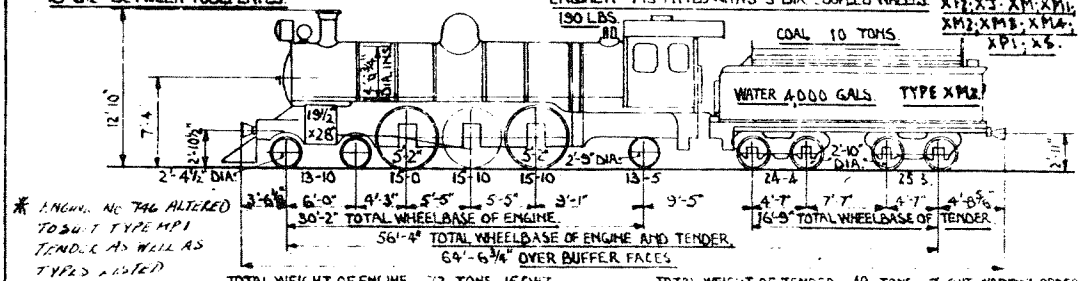
HEATING SURFACE TUBES	1463 SQ. FEET.
" " FIREBOX	125 " "
" " TOTAL	1588 " "
SUPERHEATER AREA	384 " "
FIREGRATE AREA	35 " "

92 TUBES 2¼" EXT. DIA. 18 TUBES 5¼" EXT. DIA.
18'-6½" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 24470 LBS.
DATE IN SERVICE - 1904.
ENGINE Nos. REFER INDEX ITEMS 22623.
TOTAL WEIGHT OF ENGINE EMPTY -
VALVE GEAR: - WALSCHAERT.
ENGINE No. 745 FITTED WITH 5'-3" DIA. COUPLED WHEELS.

* PERMISSIBLE TENDERS TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



* ENGINE No. 746 ALTERED TO SUIT TYPE MP1 TENDER AS WELL AS TYPES LISTED

30'-2" TOTAL WHEELBASE OF ENGINE.
56'-4" TOTAL WHEELBASE OF ENGINE AND TENDER.
64'-6¾" OVER BUFFER FACES.
16'-9" TOTAL WHEELBASE OF TENDER.

TOTAL WEIGHT OF ENGINE 72 TONS 15 CWT. TOTAL WEIGHT OF TENDER 49 TONS 7 CWT. WORKING ORDER

CLASS 10B

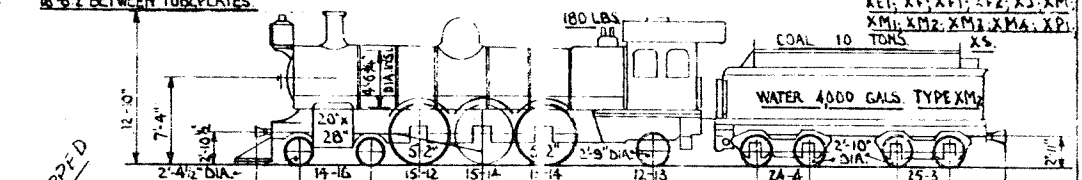
HEATING SURFACE TUBES	1463 SQ. FEET.
" " FIREBOX	125 " "
" " TOTAL	1588 " "
SUPERHEATER AREA	384 " "
FIREGRATE AREA	35 " "

92 TUBES 2¼" EXT. DIA. 18 TUBES 5¼" EXT. DIA.
18'-6½" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 24390 LBS.
DATE IN SERVICE - 1910-1912.
ENGINE Nos. REFER INDEX ITEM 25.
TOTAL WEIGHT OF ENGINE EMPTY - 151984 LBS.
VALVE GEAR: - WALSCHAERT.
DRAWING SERIAL C.E. No. A 3003.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



3'-6⅜" 6'-0" 4'-3" 5'-5" 5'-5" 9'-1" 8'-9⅛" 4'-7" 7'-7" 4'-7" 4'-8⅝"

30'-2" TOTAL WHEELBASE OF ENGINE.
55'-8⅛" TOTAL WHEELBASE OF ENGINE AND TENDER.
63'-10⅜" OVER BUFFER FACES.
16'-9" TOTAL WHEELBASE OF TENDER.

TOTAL WEIGHT OF ENGINE 74 TONS 9 CWT. TOTAL WEIGHT OF TENDER 49 TONS 7 CWT. WORKING ORDER.

CLASS 10BR

STD. BOILER No. 1

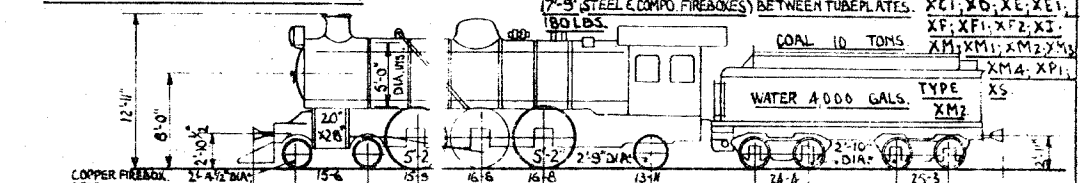
HEATING SURFACE TUBES	1497 SQ. FEET.
" " FIREBOX	123 " "
" " ARCH TUBES	—
" " TOTAL	1620 " "
SUPERHEATER AREA	366 " "
FIREGRATE AREA	36 " "

76 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.

SCRAPPED

TRACTIVE FORCE (75%) 24390 LBS.
DATE IN SERVICE - 1910-1912.
ENGINE Nos. REFER INDEX ITEM 24.
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT.
(7'-9" STEEL & COMPO. FIREBOXES) BETWEEN TUBEPLATES.
180 LBS.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



3'-6⅜" 6'-0" 4'-3" 5'-5" 5'-5" 9'-1" 8'-9⅛" 4'-7" 7'-7" 4'-7" 4'-8⅝"

30'-2" TOTAL WHEELBASE OF ENGINE.
55'-8⅛" TOTAL WHEELBASE OF ENGINE AND TENDER.
63'-10⅜" OVER BUFFER FACES.
16'-9" TOTAL WHEELBASE OF TENDER.

TOTAL WEIGHT OF ENGINE 76 TONS 2 CWT. (STEEL). (COPPER) TOTAL WEIGHT OF TENDER 49 TONS 7 CWT. WORKING ORDER.

CLASS 10C

SATURATED BOILER No. 5492

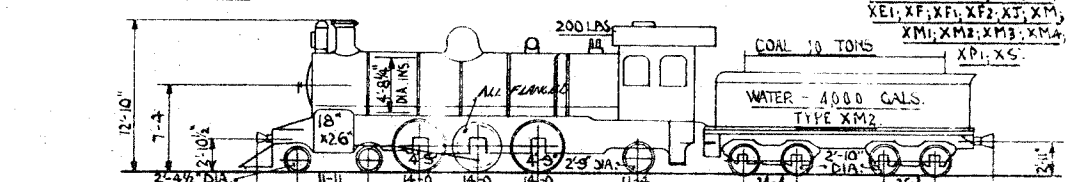
HEATING SURFACE TUBES	1783 SQ. FEET.
" " FIREBOX	122 " "
" " TOTAL	1905 " "
FIREGRATE AREA	32 " "

183 TUBES 2¼" EXT. DIA.
16'-6½" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 22170 LBS.
DATE IN SERVICE: - 1910 - 1911.
ENGINE No. REFER INDEX ITEM 27.
TOTAL WEIGHT OF ENGINE EMPTY - 130928 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



3'-6⅜" 6'-0" 4'-1½" 5'-0" 5'-0" 8'-6" 3'-2" 4'-7" 7'-7" 4'-7" 4'-8⅝"

28'-7½" TOTAL WHEELBASE OF ENGINE.
54'-6½" TOTAL WHEELBASE OF ENGINE AND TENDER.
62'-9¼" OVER BUFFER FACES.
16'-9" TOTAL WHEELBASE OF TENDER.

TOTAL WEIGHT OF ENGINE 64 TONS 15 CWT. TOTAL WEIGHT OF TENDER 49 TONS 7 CWT. WORKING ORDER.

CLASS 10C

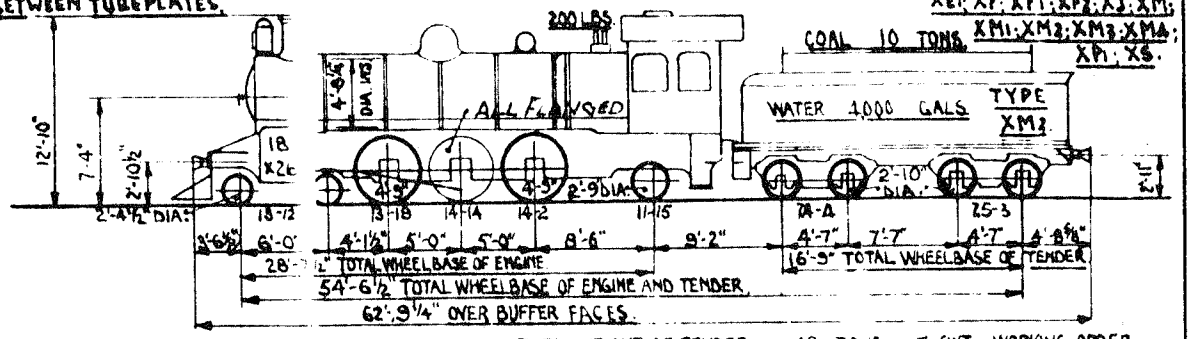
SUPERHEATER BOILER
Nº T250.

HEATING SURFACE TUBES 1403 SQ. FEET.
" " FIREBOX 122 " "
" " TOTAL 1525 " "
SUPERHEATER AREA 445 " "
FIREGRATE AREA 32 " "
130 TUBES 2¼" EXT. DIA. 18 TUBES 5½" EXT. DIA.
16'-6½" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 22170 LBS.
DATE IN SERVICE:-
ENGINE Nos. REFER INDEX ITEM 27.
TOTAL WEIGHT OF ENGINE EMPTY - 140,784 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES XG; XG1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



TOTAL WEIGHT OF ENGINE 68 TONS 2 CWT. TOTAL WEIGHT OF TENDER 49 TONS 7 CWT. WORKING ORDER.

CLASS 10CR

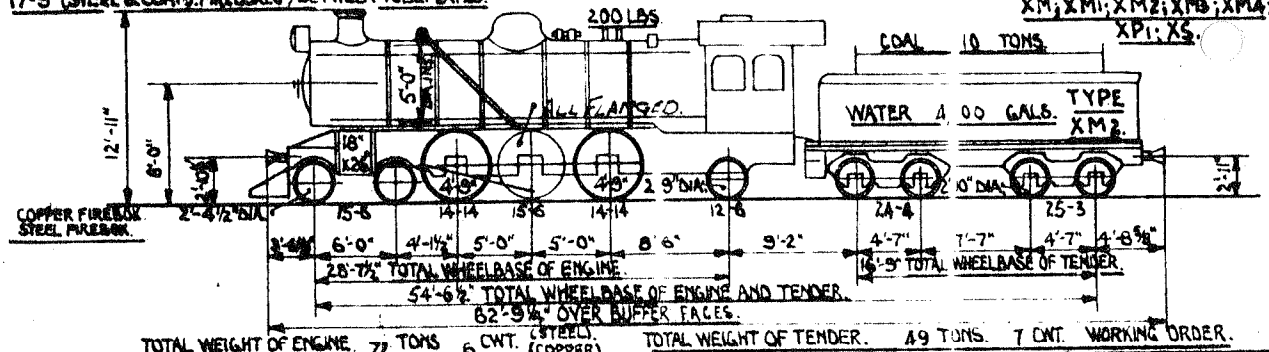
STD. BOILER Nº 1

HEATING SURFACE TUBES 1497 SQ. FEET.
" " FIREBOX 123 " "
" " ARCH TUBES —
" " TOTAL 1620 " "
SUPERHEATER AREA 266 " "
FIREGRATE AREA 36 " "
76 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
17'-5" (STEEL & COPPER) FIREBOXES BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 22170 LBS.
DATE IN SERVICE:- 1910-11
ENGINE Nos. REFER INDEX ITEM 26.
TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



TOTAL WEIGHT OF ENGINE 72 TONS 6 CWT. (STEEL) (COPPER) TOTAL WEIGHT OF TENDER. 49 TONS. 7 CWT. WORKING ORDER.

CLASS 11

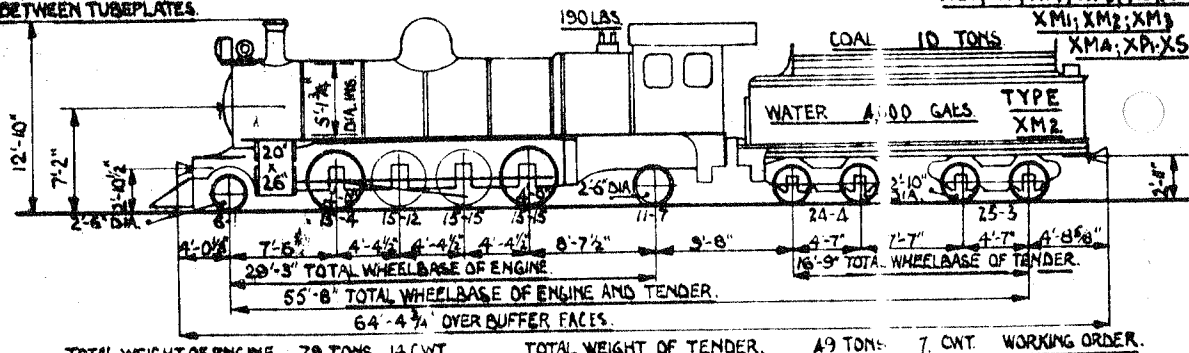
SUPERHEATER.

HEATING SURFACE TUBES 1879 SQ. FEET.
" " FIREBOX 182 " "
" " TOTAL 1971 " "
SUPERHEATER AREA 331 " "
FIREGRATE AREA 37 " "
121 TUBES 2¼" EXT. DIA. 21 TUBES 5½" EXT. DIA.
18'-0¼" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 30870 LBS.
DATE IN SERVICE:- 1904
ENGINE Nos. REFER INDEX ITEM 42.
TOTAL WEIGHT OF ENGINE EMPTY -
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES XC; XC1; XD; XE; XE1; XF; XF1; XF2; XJ; XM; XM1; XM2; XM3; XM4; XP1; XS.



TOTAL WEIGHT OF ENGINE 79 TONS 14 CWT. TOTAL WEIGHT OF TENDER. 49 TONS 7 CWT. WORKING ORDER.

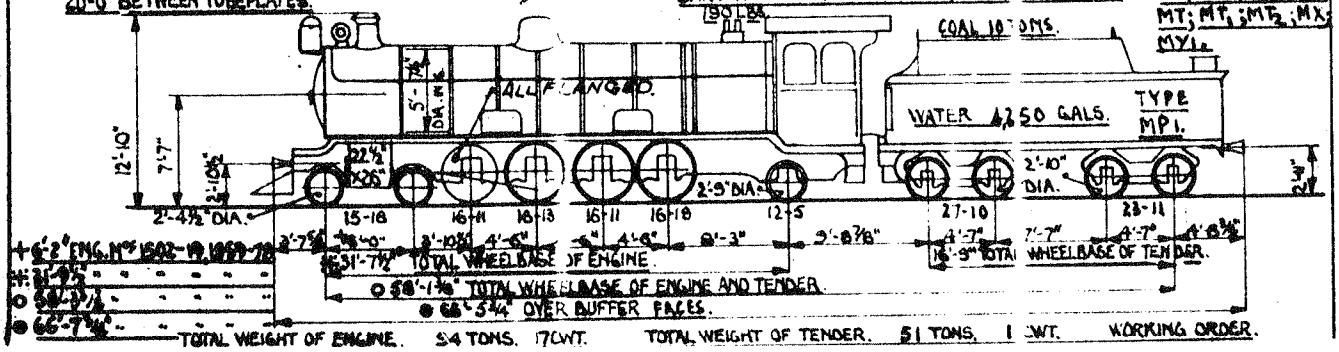
CLASS 12.

HEATING SURFACE TUBES 2328.50 SQ. FEET.
" " FIREBOX 160 " "
" " TOTAL 2488 " "
SUPERHEATER AREA 574 " "
FIREGRATE AREA. 40 " "
139 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
20'-0" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILERS.

TRACTIVE FORCE (75%) 36780 LBS.
DATE IN SERVICE:- 1912-1922
ENGINE Nos. REFER INDEX ITEMS 83 & 110.
TOTAL WEIGHT OF ENGINE EMPTY - 194,000 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL Nos C.E.A. 3013, 4940, 407 & 8397.

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT; MT1; MT2; MX; MY1.



+ 6'-2" ENG. Nos 1902-19, 1922-28
# 31'-4½" " " " " "
○ 58'-0½" " " " " "
● 66'-7⅛" " " " " "

TOTAL WEIGHT OF ENGINE. 54 TONS. 17 CWT. TOTAL WEIGHT OF TENDER. 51 TONS. 1 CWT. WORKING ORDER.

WEIGHTS ALTERED 4-12-11 (00) 9 OF 23-06-1961

CLASS 12R. STD. BOILER No 2

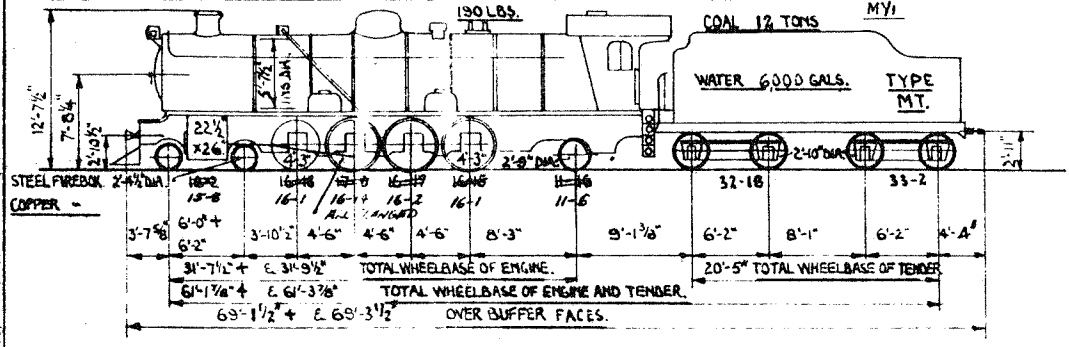
14

HEATING SURFACE TUBES 1933 SQ. FEET.
" " FIREBOX 142 " "
" " TOTAL 2075 " "
SUPERHEATER AREA 492 " "
FIREGRATE AREA 37 " "
87 TUBES 2¼" EXT. DIA. 80 TUBES 5½" EXT. DIA
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 36780 LBS.
DATE IN SERVICE :- 1912-1922
TOTAL WEIGHT OF ENGINE EMPTY
ENGINE Nos. REFER INDEX ITEMS 84, 109 & 116.

VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT; MT1; MT2; MX; MY MY1


190 LBS.
COAL 12 TONS
WATER 6,000 GALS. TYPE MT.
12'-7½"
7'-8¼"
22½" x 26"
STEEL FIREBOX 2'-4½" DIA.
COPPER -
32-18
33-2
3'-7⅝" 6'-2" 3'-10½" 4'-6" 4'-6" 4'-6" 8'-3" 9'-1⅜" 6'-2" 8'-1" 6'-2" 4'-4"
31'-7½" + ℄ 31'-9½" TOTAL WHEELBASE OF ENGINE.
20'-5" TOTAL WHEELBASE OF TENDER
61'-1⅞" + ℄ 61'-3⅜" TOTAL WHEELBASE OF ENGINE AND TENDER.
69'-1½" + ℄ 68'-3½" OVER BUFFER FACES.

+ FOR ENG. Nos 1494 - 1501 ONLY.

TOTAL WEIGHT OF ENGINE 91 95 TONS 12 14 CWT. STEEL FIREBOX. COPPER "

TOTAL WEIGHT OF TENDER. 66 TONS. 0 CWT WORKING ORDER.

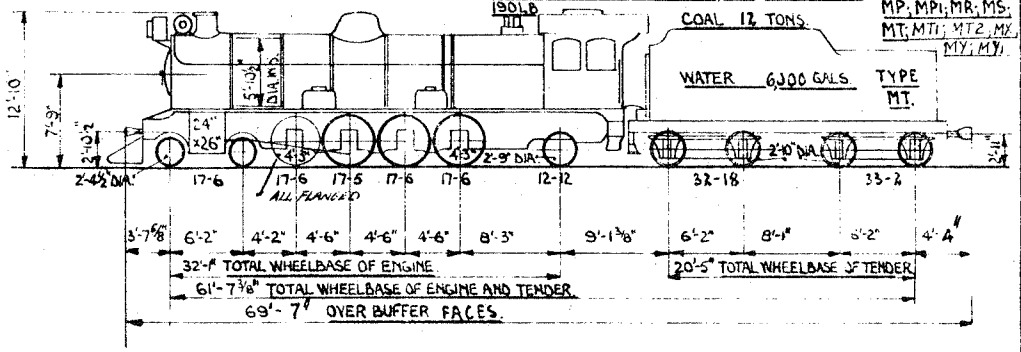
CLASS 12A.

HEATING SURFACE TUBES 2308 SQ. FEET.
" " FIREBOX 200 " "
" " TOTAL 2508 " "
SUPERHEATER AREA 515 " "
FIREGRATE AREA 41 " "
159 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
18'-0" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 41840 LBS.
DATE IN SERVICE :- 1919-20-29.
ENGINE Nos REFER INDEX ITEMS 85 & 135.

TOTAL WEIGHT OF ENGINE EMPTY :- 197,200 LBS.
VALVE GEAR - WALSCHAERT
DRAWING SERIAL C.E. Nos A. 7964, 9391, 13428 & 13633

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT; MT1; MT2; MX; MY; MY1.



TOTAL WEIGHT OF ENGINE. 99 TONS. 1 CWT.

TOTAL WEIGHT OF TENDER 66 TONS. 0 CWT. WORKING ORDER.

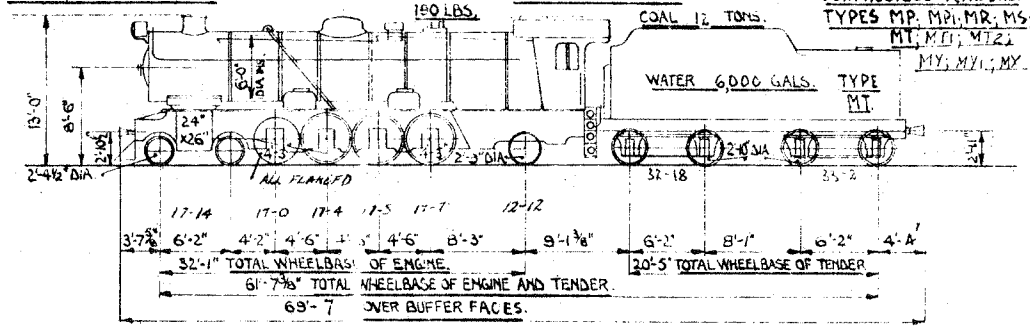
CLASS 12AR.

HEATING SURFACE TUBES 2338 SQ. FEET.
" " FIREBOX 64 " "
" " TOTAL 2,502 " "
SUPERHEATER AREA 480 " "
FIREGRATE AREA 41 " "
119 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 41840 LBS.
DATE IN SERVICE :- 1919-20-29
ENGINE Nos REFER INDEX ITEMS 86 & 136.

TOTAL WEIGHT OF ENGINE EMPTY :-
VALVE GEAR - WALSCHAERT

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT; MT1; MT2; MY; MY1; MY.



TOTAL WEIGHT OF ENGINE 99 TONS 5 CWT.

TOTAL WEIGHT OF TENDER 66 TONS 0 CWT. WORKING ORDER.

CLASS 12B.

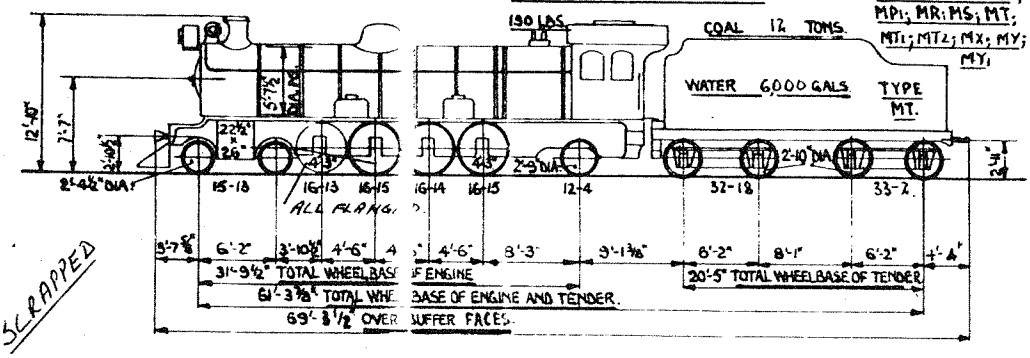
HEATING SURFACE TUBES 2328 SQ. FEET.
" " FIREBOX 160 " "
" " TOTAL 2488 " "
SUPERHEATER AREA. 574 " "
FIREGRATE AREA. 48 " "
189 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
20'-0" BETWEEN TUBEPLATES.

FITTED WITH STANDARD BOILER.

TRACTIVE FORCE (75%) 36780 LBS.
DATE IN SERVICE:- 1920.
ENGINE Nos. REFER INDEX ITEM 115

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos. A. 9288.

PERMISSIBLE TENDERS:- TYPES MP; MPi; MR; MS; MT; MTi; MT2; MX; MY; MYi.



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TOTAL WEIGHT OF ENGINE. 94 TONS 14 CWT. TOTAL WEIGHT OF TENDER. 66 TONS 0 CWT. WORKING ORDER

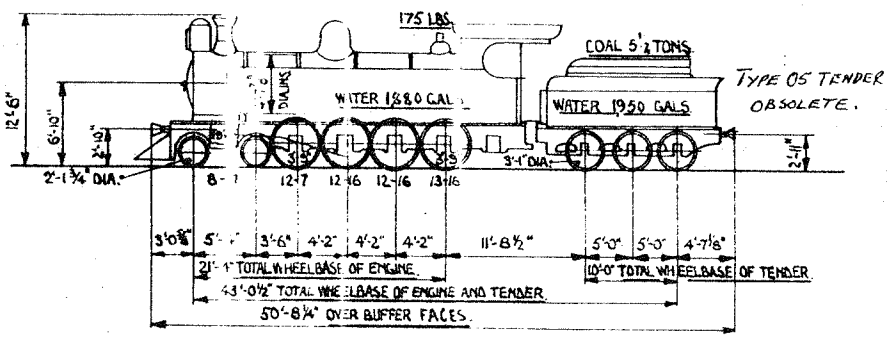
CLASS 13.

(CONVERTED H1 & H2.)

HEATING SURFACE TUBES 1359 SQ. FEET.
" " FIREBOX 135 " "
" " TOTAL 1494 " "
FIREGRATE AREA. 21 " "
287 TUBES 1¾" EXT. DIA.
10'-4" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 28430 LBS.
DATE IN SERVICE:- 1900-1903.
ENGINE Nos. REFER INDEX ITEM 67.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - STEPHENSON.



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TOTAL WEIGHT OF ENGINE. 60 TONS. 12 CWT. TOTAL WEIGHT OF TENDER. 24 TONS. 0 CWT. WORKING ORDER.

CLASS 14.

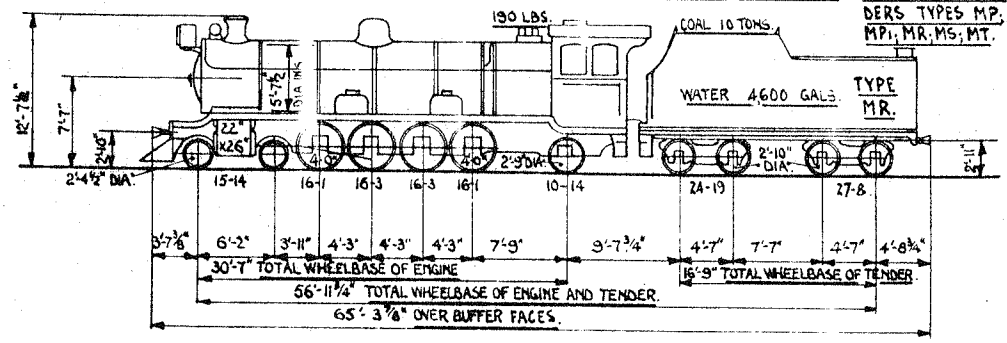
HEATING SURFACE TUBES. 2212 SQ. FEET.
" " FIREBOX. 150 " "
" " TOTAL 2362 " "
SUPERHEATER AREA. 540 " "
FIREGRATE AREA. 37 " "
139 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
19'-0" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILER.

TRACTIVE FORCE (75%) 37360 LBS.
DATE IN SERVICE:- 1913-15.
ENGINE Nos. REFER INDEX ITEM 99.

TOTAL WEIGHT OF ENGINE EMPTY - 179,400 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos. A. 4942, 6093 & 6239.

PERMISSIBLE TENDERS TYPES MP; MPi; MR; MS; MT.



TOTAL WEIGHT OF ENGINE. 90 TONS. 16 CWT. TOTAL WEIGHT OF TENDER. 52 TONS. 7 CWT. WORKING ORDER.

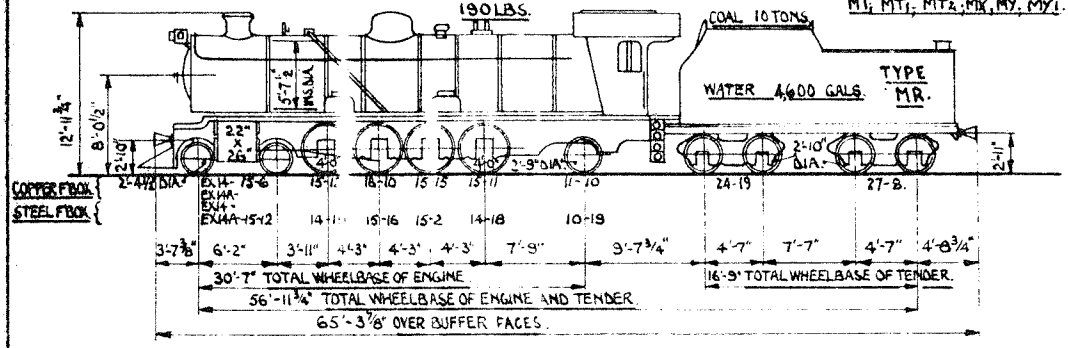
CLASS 14R

STD. BOILER Nº 2.

HEATING SURFACE TUBES 1951 SQ. FEET
" " FIREBOX 142 " "
" " TOTAL 2075 " "
SUPERHEATER AREA 492 " "
FIREGRATE AREA 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 37360 LBS.
DATE IN SERVICE 1913-15
ENGINE Nos REFER INDEX ITEMS 93,100 & 114.
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT; MT1; MT2; MX, MY, MY1.



TOTAL WEIGHT OF ENGINE. EX.14 - 90 TONS. 4 CWT. } COPPER F'BOX.
EX.14A - " " " }
EX.14 - 87 " 6 " } STEEL F'BOX.
EX.14A - " " " }
TOTAL WEIGHT OF TENDER. 52 TONS 7 CWT. WORKING ORDER.

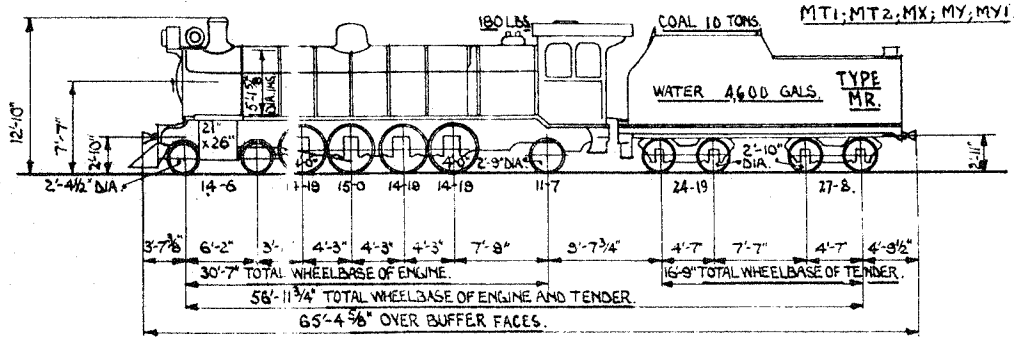
CLASS 14A

HEATING SURFACE TUBES 1909 SQ. FEET.
" " FIREBOX 150 " "
" " TOTAL 2059 " "
SUPERHEATER AREA 483 " "
FIREGRATE AREA 37 " "
119 TUBES 2¼" EXT. DIA. 21 TUBES 5½" EXT. DIA.
19'-0" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILER

TRACTIVE FORCE (75%) 32250 LBS.
DATE IN SERVICE :- 1914-15.
ENGINE Nos REFER INDEX ITEMS 92 & 113.
TOTAL WEIGHT OF ENGINE EMPTY:- 178,100 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nº A. 6103.

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT. MT1; MT2; MX; MY; MY1.



TOTAL WEIGHT OF ENGINE. 85 TONS. 10 CWT. TOTAL WEIGHT OF TENDER. 52 TONS. 7 CWT. WORKING ORDER.

CLASS 14C.

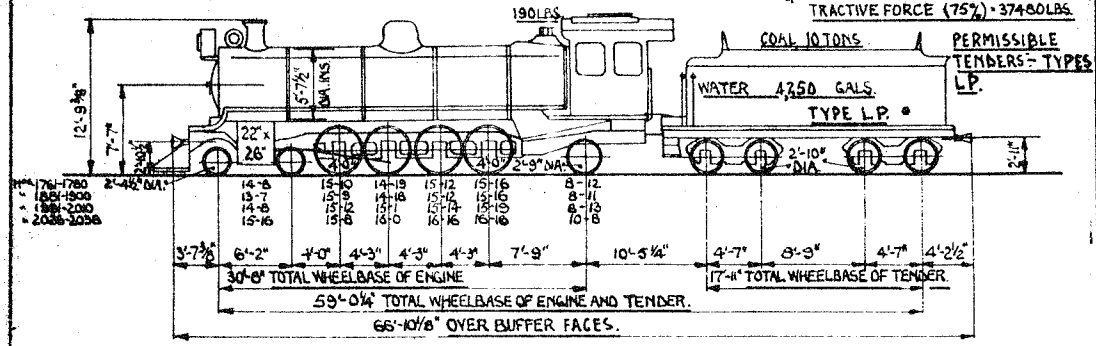
HEATING SURFACE TUBES 2212 SQ. FEET.
" " FIREBOX 138 " "
" " TOTAL 2350 " "
SUPERHEATER AREA. 526 " "
FIREGRATE AREA. 37 " "
139 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
19'-0⅜" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILER.

TRACTIVE FORCE (75%) 37360 LBS.
DATE IN SERVICE. - 1918-1922.
ENGINE Nos REFER INDEX ITEMS 102, 111, 121, & 125.
TOTAL WEIGHT OF ENGINE EMPTY:- 168000 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nº A. 8210.

B.P. INCREASED TO 195 LBS. □" WHEN CYLS. BUSHED TO 21¾" DIA.
TRACTIVE FORCE (75%) - 37480 LBS.

PERMISSIBLE TENDERS:- TYPES LP.



TOTAL WEIGHT OF ENGINE. Nos 1761-1780 - 84 TONS. 17 CWT.
" 1881-1900 - 83 " 13 "
" 1991-2010 - 85 " 7 "
" 2026-2038 - 81 " 4 "

TOTAL WEIGHT OF TENDER. 50 TONS. 18 CWT. WORKING ORDER.

HEATING SURFACE TUBES 2,212 SQ FT
" " FIREBOX 138 " "
" " TOTAL 2,350 " "
SUPERHEATER AREA 526 " "
FIREGRATE AREA 37 " "
139 TUBES 2¼ EXT. DIA 24 TUBES 5½ EXT DIA
19'-0⅜" BETWEEN TUBEPLATES

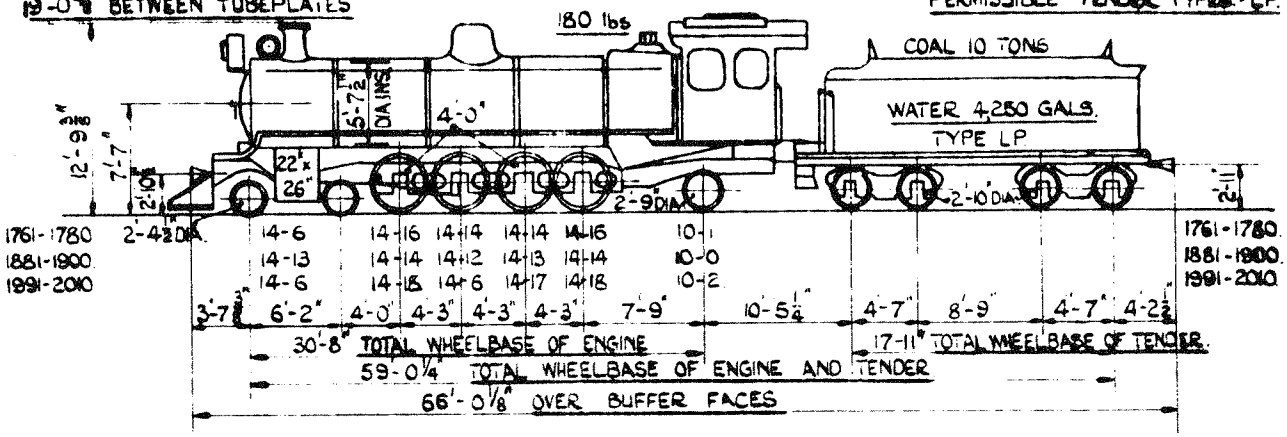
TRACTIVE FORCE (75%) 35,400 LBS
DATE IN SERVICE 1918 - 1922
ENGINE NOS. REFER INDEX ITEMS 102A, 111A, 12.A
TOTAL WEIGHT OF ENGINE EMPTY 166,000 lbs
VALVE GEAR - WALSCHAERT

CLASS 14CB

REBALANCED FOR BRANCH LINES

SEE 14 CRB.

PERMISSIBLE TENDER TYPES:- LP



TOTAL WEIGHT OF ENGINE
1761 - 1780 83 TONS 7 CWT.
1881 - 1900 83 " 6 "
1991 - 2010 83 " 17 "

TOTAL WEIGHT OF TENDER 50 TONS 18 CWT. WORK ORDER

HEATING SURFACE TUBES 2212 SQ. FT
" " FIREBOX. 138 " "
" " TOTAL. 2350 " "
SUPERHEATER AREA 526 " "
FIREGRATE AREA 37 " "
139 TUBES 2¼" EXT DIA 24 TUBES 5½" EXT DIA
19'-0⅜" BETWEEN TUBEPLATES.

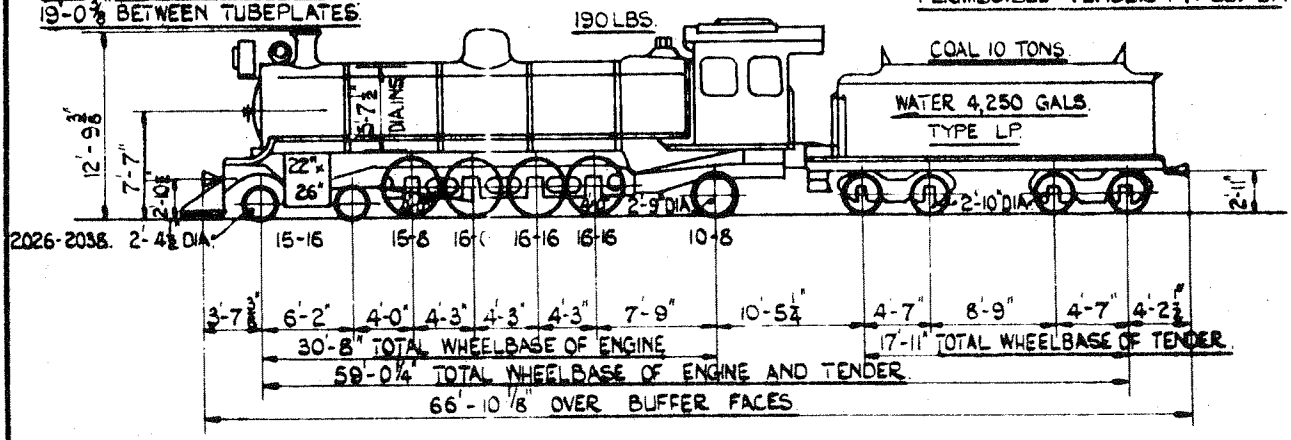
TRACTIVE FORCE (75%) 37,360 LBS
DATE IN SERVICE - 1918 - 1922.
ENGINE NOS REFER INDEX ITEM 125B.
TOTAL WEIGHT OF ENGINE EMPTY 183,000 LBS
VALVE GEAR - WALSCHAERT.

CLASS 14CM.

REBALANCED FOR MAIN LINES.

SEE 14 CRM.

PERMISSIBLE TENDER TYPES:- LP.



TOTAL WEIGHT OF ENGINE. 91 TONS 4 CWT.

TOTAL WEIGHT OF TENDER 50 TONS 18 CWT. WORK ORDER.

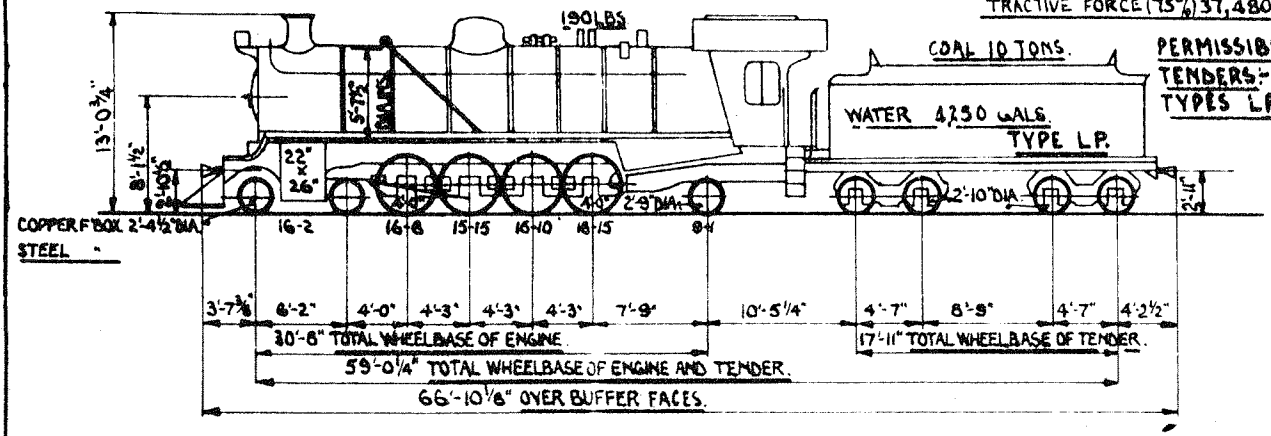
CLASS 14 CR.

STD. BOILER No. 2.

HEATING SURFACE TUBES 1935 SQ. FEET.
" " FIREBOX 142 " "
" " TOTAL 2075 " "
SUPERHEATER AREA. 492 " "
FIREGRATE AREA. 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31360 LBS.
DATE IN SERVICE:- 1918-1922
ENGINE Nos. REFER INDEX ITEMS 101, 112, 122 & 126.
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT

B.P. INCREASED TO 195 LBS. 0" WHEN CYLS. BUSHED TO 21¾ DIA.
TRACTIVE FORCE (75%) 37,480 LBS.



TOTAL WEIGHT OF ENGINE 90 TONS. 11 CWT. COPPER F'BOX.
" " STEEL "

TOTAL WEIGHT OF TENDER. 50 TONS. 18 CWT. WORKING ORDER.

CLASS 15.

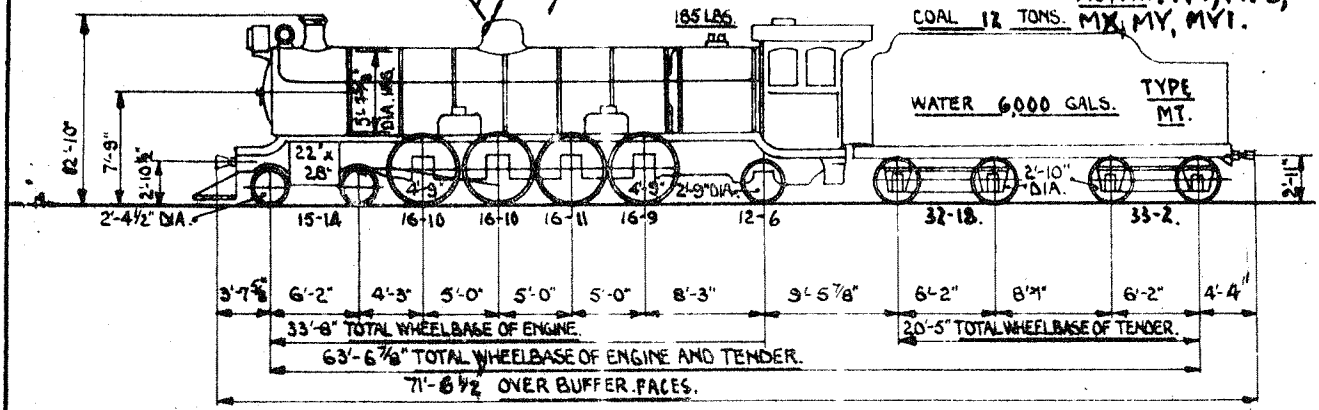
Becomes 154 on Std Boilers and Fitted Ref 4904

HEATING SURFACE TUBES. 2423 SQ. FEET.
" " FIREBOX 155 " "
" " TOTAL 2578 " "
SUPERHEATER AREA 601 " "
FIREGRATE AREA. 40 " "
131 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
21'-9" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILERS

TRACTIVE FORCE (75%) 32990 LBS.
DATE IN SERVICE. - 1914.
ENGINE Nos. REFER INDEX ITEM 89.
TOTAL WEIGHT OF ENGINE EMPTY - 187,320 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. No. A. 5136.

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT. MT1, MT2, MX, MY, MY1.



TOTAL WEIGHT OF ENGINE. 94 TONS. 0 CWT.

TOTAL WEIGHT OF TENDER. 66 TONS. 0 CWT. WORKING ORDER.

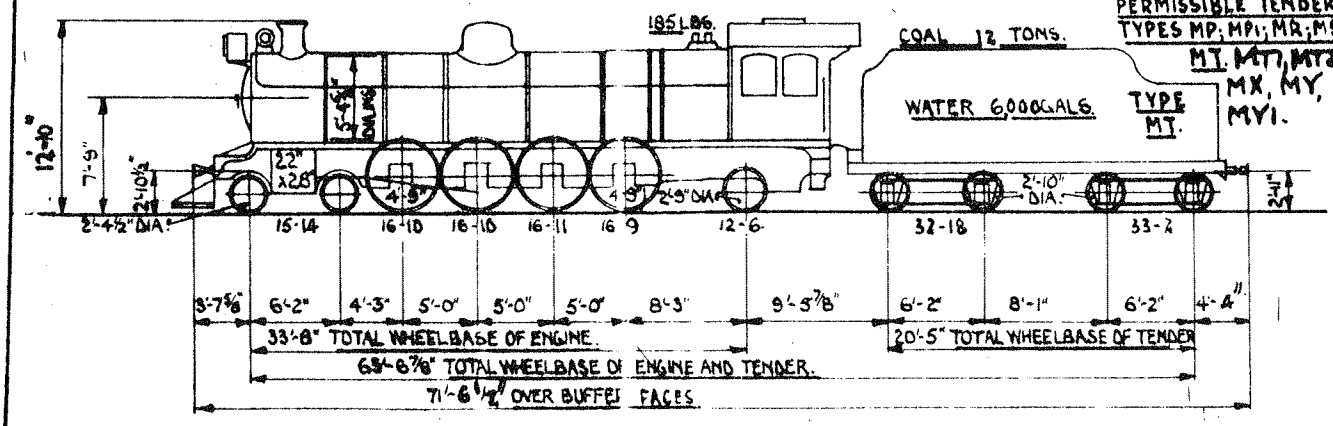
CLASS 15A.

HEATING SURFACE TUBES 1834 SQ. FEET.
" " FIREBOX 192 " "
" " TOTAL 2026 " "
SUPERHEATER AREA. 478 " "
FIREGRATE AREA. 40 " "
113 TUBES 2¼" EXT. DIA. 21 TUBES 5½" EXT. DIA.
19'-0" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 32990 LBS.
DATE IN SERVICE:- 1914-1925.
ENGINE Nos. REFER INDEX ITEMS 91, 104, 107, 117, 123 & 133.

TOTAL WEIGHT OF ENGINE EMPTY - 185,920 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos. A. 6105, 6854, 7296, 7931, 8382, 9592 & 11871.

PERMISSIBLE TENDERS TYPES MP; MP1; MR; MS; MT. MT1, MT2, MX, MY, MY1.



TOTAL WEIGHT OF ENGINE. 94 TO 95. 0 CWT.

TOTAL WEIGHT OF TENDER. 66 TONS. 0 CWT. WORKING ORDER

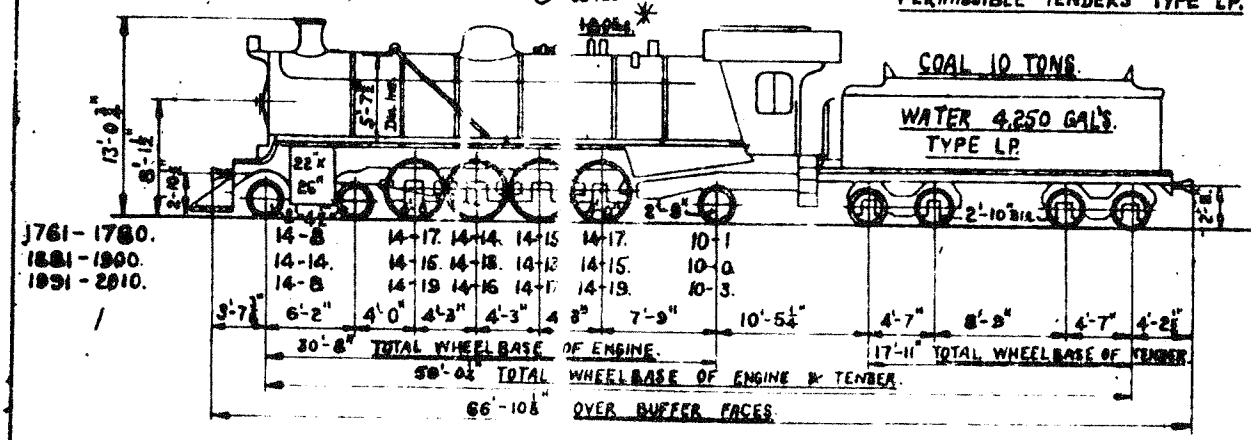
CLASS 14CRB.

STD. BOILER Nº 2.
REBALANCED FOR BRANCH LINES.

HEATING SURFACE TUBES.	1,933	SQ. FT.
" " FIREBOX.	142	" "
" " TOTAL.	2,075	" "
SUPERHEATER AREA.	492	" "
FIREGRATE "	37	" "

87 TUBES 2¼" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) ~~35,486 lbs.~~ * ● 35980 lbs.
DATE IN SERVICE - 1918-1922.
ENGINE Nºs REFER INDEX ITEMS. 101A. 112A, 122A.
TOTAL WEIGHT OF ENGINE EMPTY 166,000 lbs.
VALVE GEAR WALSCHAERT.
● T.F. 35980 LBS/WHEN CYL. BUSHED T.F. 35170 LBS.
PERMISSIBLE TENDERS TYPE LP.



* B.P. INCREASED TO 185 LBS/□" WHEN CYLS BUSHED TO 21¼"D. TRACTIVE FORCE (75%) 35980 LBS.

1761-1780	83	TONS 12 CWTS.
1881-1900	83	" 10 "
1991-2010	84	" 2 "

TOTAL WEIGHT OF ENGINE:

TOTAL WEIGHT OF TENDER 50TONS 18CWT WORK ORDER

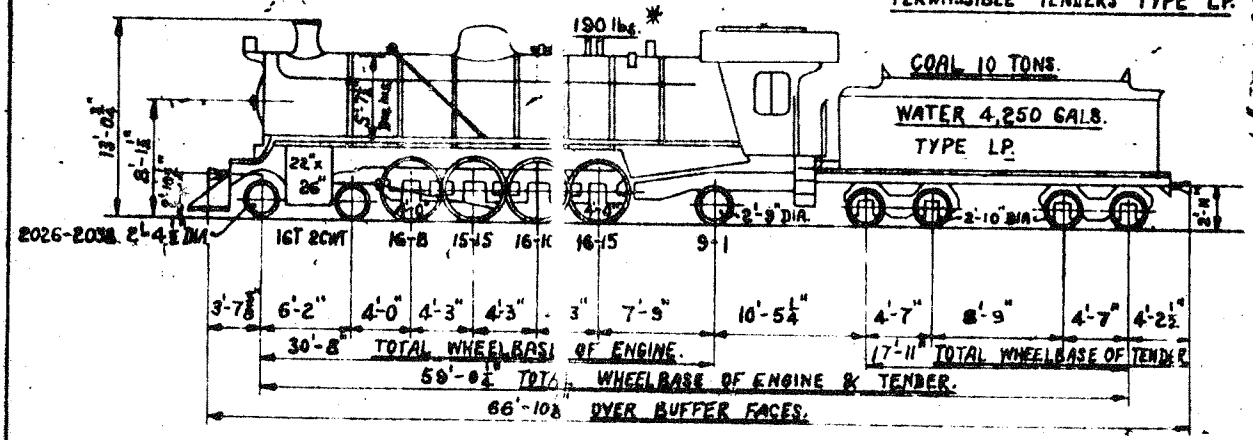
CLASS 14CRM.

STD BOILER Nº 2.
REBALANCED FOR MAIN LINES.

HEATING SURFACE TUBES.	1,933	SQ FT.
" " FIREBOX.	142	" "
" " TOTAL.	2,075	" "
SUPERHEATER AREA.	492	" "
FIREGRATE AREA.	37	" "

87 TUBES 2¼" EXT. DIA. 30 TUBES 5½" EXT. DIA.
19'-4" (STEEL) & 19'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 37360 lbs. *
DATE IN SERVICE - 1918-1922.
ENGINE Nºs REFER INDEX ITEM 126A.
TOTAL WEIGHT OF ENGINE EMPTY. 162,000 lbs.
VALVE GEAR WALSCHAERT.
PERMISSIBLE TENDERS TYPE LP.


190 lbs.
COAL 10 TONS.
WATER 4,250 GALS.
TYPE LP
2026-2038.
16T 2CWT 16-8 15-15 16-10 16-15 9-1
3'-7⅞" 6'-2" 4'-0" 4'-3" 4'-3" 3" 7'-9" 10'-5¼" 4'-7" 8'-9" 4'-7" 4'-2½"
30'-8" TOTAL WHEELBASE OF ENGINE.
17'-11" TOTAL WHEELBASE OF TENDER.
59'-0½" TOTAL WHEELBASE OF ENGINE & TENDER.
66'-10⅛" OVER BUFFER FACES.

* B.P. INCREASED TO 185 LBS/□" WHEN CYLS BUSHED TO 21¼"D. TRACTIVE FORCE (75%) 37360 LBS.

● 153 LBS/□" - T.F. 37960 LBS ● 37090 LBS

* REF. LYS 12/1/100/20 OF 28-04-70

TOTAL WEIGHT OF ENGINE. 90 TONS 11 CWT.

TOTAL WEIGHT OF TENDER 50TON 18CWT. WORK. ORDER.

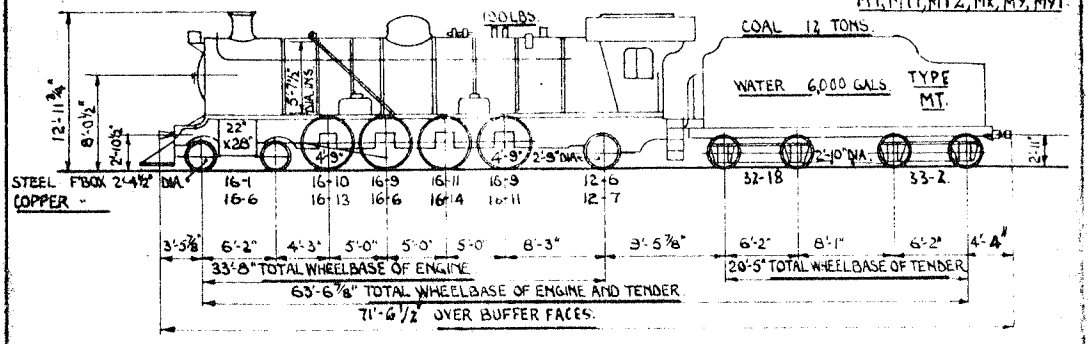
● LYS-12/1/100/26 OF 13-1-76.

CLASS 15AR
STD. Nº 2A BOILER

HEATING SURFACE TUBES 2171 SQ. FEET.
" " FIREBOX 142 " "
" " TOTAL 2313 " "
SUPERHEATER AREA. 537 " "
FIREGRATE AREA. 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
21'-8" (STEEL) & 21'-7⅜" COPPER BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 33880 LBS.
DATE IN SERVICE :- 1914-1925.
ENGINE Nºs. REFER INDEX ITEMS 90, 103, 108, 118, 124 & 134.
TOTAL WEIGHT OF ENGINE EMPTY -
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES MP, MP1; MR; MS; MT, MT1, MT2, MX, MY, MY1.



TOTAL WEIGHT OF ENGINE. 94 TONS 6 CWT. STEEL F'BOX.
" " 94 " 17 " COPPER "
TOTAL WEIGHT OF TENDER 66 TONS. 0 CWT. WORKING ORDER.

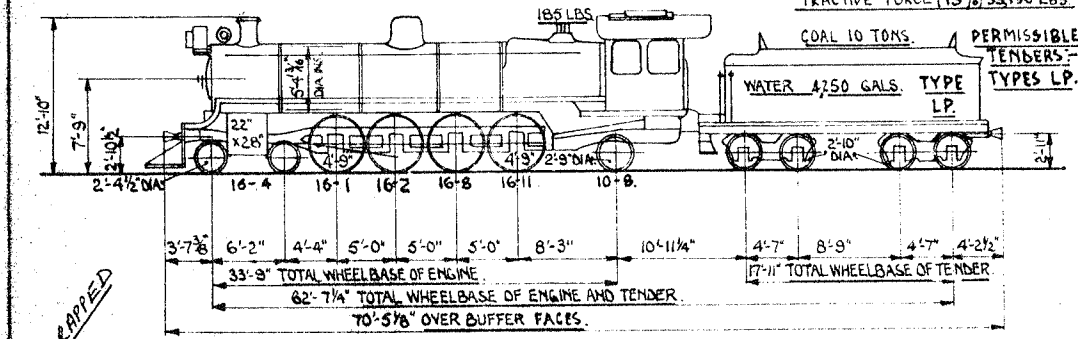
CLASS 15B

HEATING SURFACE TUBES 1840 SQ. FEET.
" " FIREBOX 188 " "
" " TOTAL 2,028 " "
SUPERHEATER AREA. 446 " "
FIREGRATE AREA. 40 " "
113 TUBES 2¼" EXT. DIA. 21 TUBES 5½ EXT. DIA.
18'-0" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILER.

TRACTIVE FORCE (75%) 32990 LBS.
DATE IN SERVICE - 1918-1920.
ENGINE Nºs. REFER INDEX ITEMS 105 & 119.
TOTAL WEIGHT OF ENGINE EMPTY:- 172900 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nº A.8189.

B.P. INCREASED TO 190 LBS/□" WHEN CYLS. BUSHED TO 21¾" DIA.
TRACTIVE FORCE (75%) 33,130 LBS.



PERMISSIBLE TENDERS:- TYPES LP.

SCRAPPED

TOTAL WEIGHT OF ENGINE 91 TONS 14 CWT.
TOTAL WEIGHT OF TENDER. 50 TONS. 18 CWT WORKING ORDER.

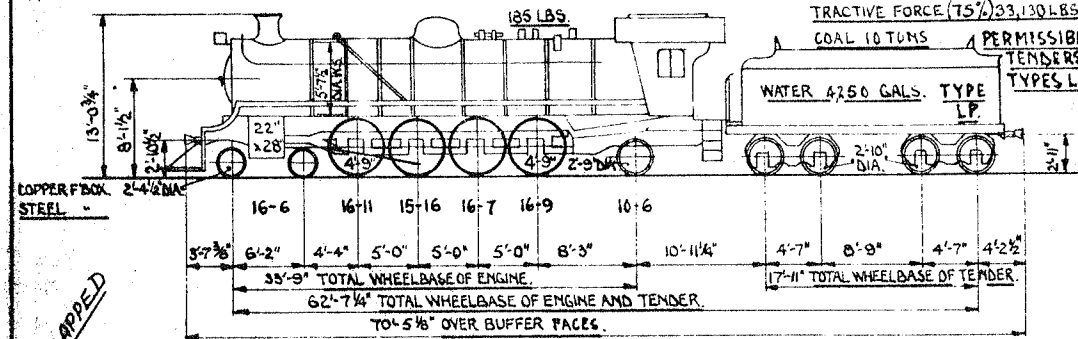
CLASS 15BR
STD. Nº 2A BOILER

HEATING SURFACE TUBES 2171 SQ. FEET.
" " FIREBOX 142 " "
" " TOTAL 2313 " "
SUPERHEATER AREA. 537 " "
FIREGRATE AREA 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
21'-8" (STEEL) & 21'-7⅜" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 32990 LBS.
DATE IN SERVICE :- 1918-1920.
ENGINE Nºs. REFER INDEX ITEMS 106 & 120.
TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT.

B.P. INCREASED TO 190 LBS/□" WHEN CYLS. BUSHED TO 21¾" DIA.
TRACTIVE FORCE (75%) 33,130 LBS.
COAL 10 TONS

PERMISSIBLE TENDERS:- TYPES LP.



SCRAPPED

TOTAL WEIGHT OF ENGINE. 91 TONS. 15 CWT. COPPER F'BOX.
" " " " STEEL "
TOTAL WEIGHT OF TENDER. 50 TONS. 18 CWT. WORKING ORDER.

CLASS 15CA 19

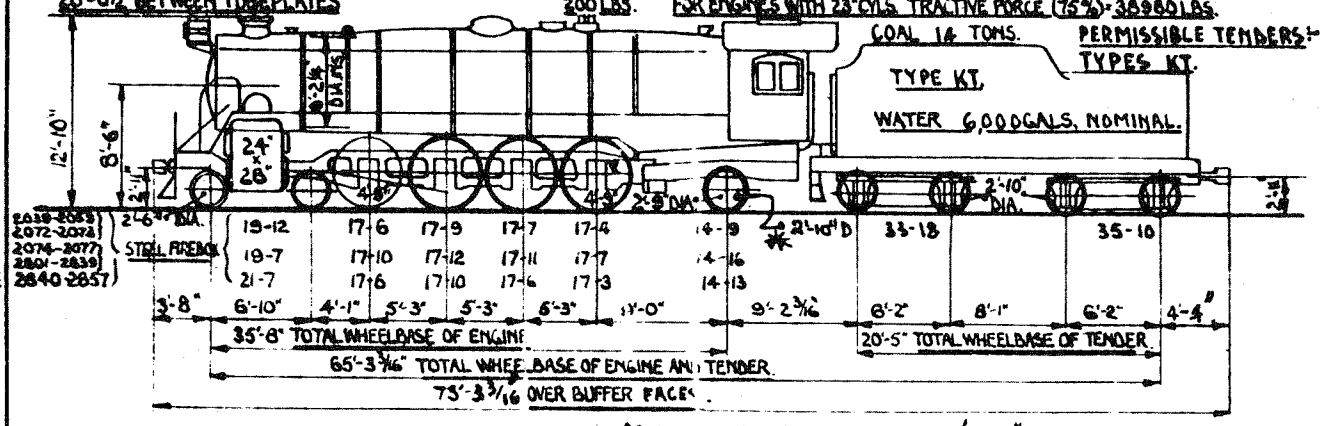
WITH 4'-9" DIA WHEELS.

HEATING SURFACE TUBES	2,564 SQ. FEET.
" ARCH "	23 " "
" FIREBOX	200 " "
" TOTAL	2,777 " "
SUPERHEATER AREA.	716 " "
FIREGRATE AREA	48 " "

143 TUBES 2¼" EXT. DIA. 30 TUBES 5½" EXT. DIA.
20'-0½" BETWEEN TUBEPLATES

FOR BOILERS 9504-6 SEE 15CA & 15CB RBD FOR BOILER PARTICULARS.

TRACTIVE FORCE (75%) 42440 LBS.
DATE IN SERVICE:- 1926-1930
ENGINE Nos. REFER INDEX ITEMS 127, 131 & 187.
TOTAL WEIGHT OF ENGINE EMPTY:- { 210,224 LBS. BALDWIN. 204,420 LBS. A.L.CO.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos. A. 12792, 13232, 13234, 13709 & 13869.
FOR ENGINES WITH 23" CYLS. TRACTIVE FORCE (75%) - 38980 LBS.



ALL FITTED WITH 5'-0" D. WHEELS

TOTAL WEIGHT OF ENGINE: 103 TONS 7 CWT. / 104 - 3 - / 105 - 5 - { 2039-2059, 2072-2073, 2074-2077, 2801-2839, 2840-2857 } STEEL F'BOX

TOTAL WEIGHT OF TENDER. 69 TONS, 8 CWT. WORKING ORDER.

CLASS 15CA

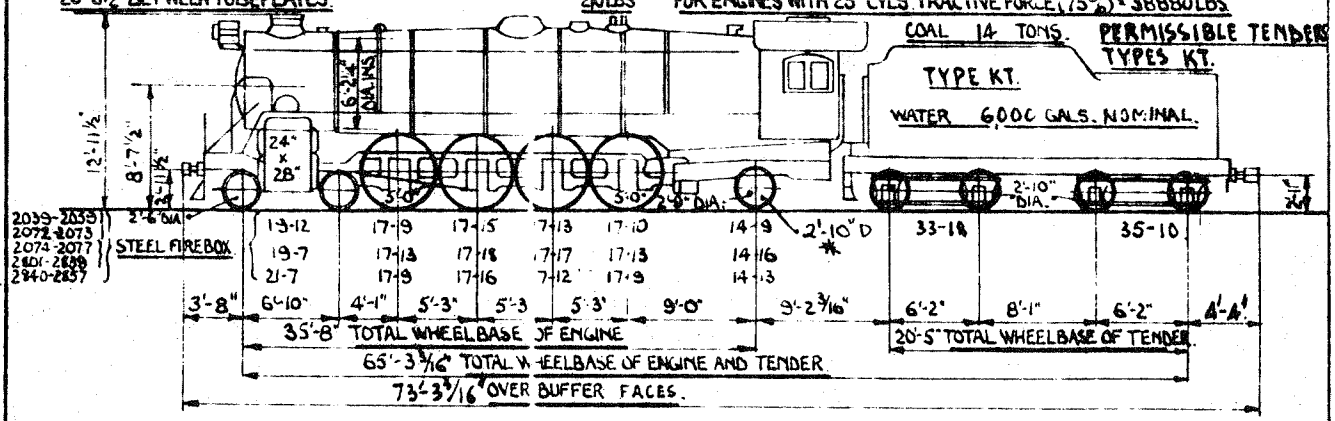
WITH 5'-0" DIA. WHEELS

HEATING SURFACE TUBES	2,554 SQ. FEET.
" ARCH "	23 " "
" FIREBOX	200 " "
" TOTAL	2,777 " "
SUPERHEATER AREA	716 " "
FIREGRATE AREA	48 " "

143 TUBES 2¼" EXT. DIA. 30 TUBES 5½" EXT. DIA.
20'-0½" BETWEEN TUBEPLATES.

FOR BOILERS 9504-6 See 15CA & 15CB REBOILERED FOR BOILER PARTICULARS

TRACTIVE FORCE (75%) 42340 LBS.
DATE IN SERVICE:- 1926-1930.
ENGINE Nos. REFER INDEX
ITEMS 128, 132 & 188.
TOTAL WEIGHT OF ENGINE EMPTY:- { 212,576 LBS. BALDWIN 206,180 LBS. A.L.CO.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos. A. 12792, 13232, 13234, 13709 & 13869.
FOR ENGINES WITH 23" CYLS. TRACTIVE FORCE (75%) - 38880 LBS.



TOTAL WEIGHT OF ENGINE: 104 TONS. 8 CWT. / 105 - 4 - / 106 - 6 - { 2039-2059, 2072-2073, 2074-2077, 2801-2839, 2840-2857 } STEEL F'BOX.

TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER.

CLASSES 15CA & 15CB

REBOILERED.

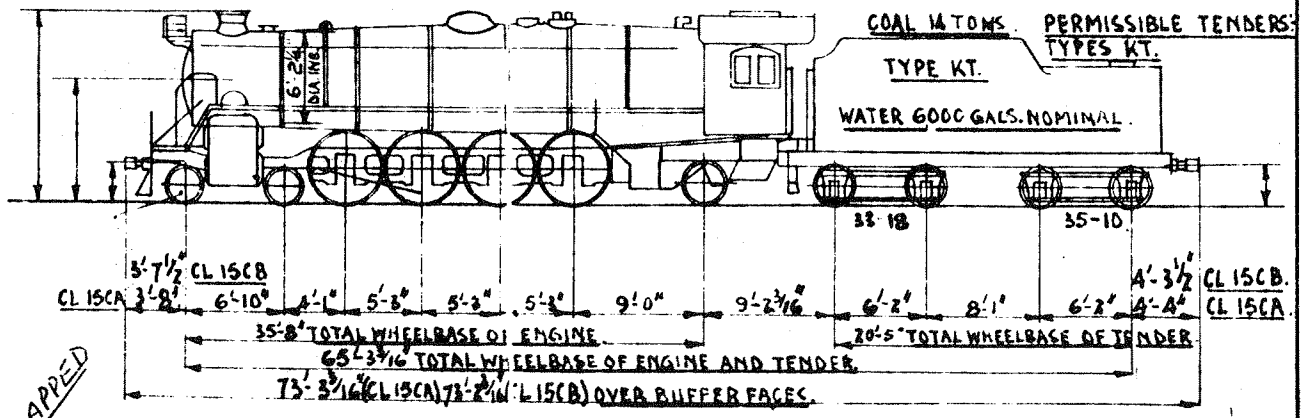
HEATING SURFACE TUBES	2,361 SQ. FEET.
" ARCH "	23 " "
" FIREBOX	200 " "
" TOTAL	2,584 " "
SUPERHEATER AREA	570 " "
FIREGRATE AREA	48 " "

117 TUBES 2¼" EXT. DIA. 34 TUBES 5½" EXT. DIA.
20'-0½" BETWEEN TUBEPLATES.

BOILERS 9504 - 9506

TRACTIVE FORCE (75%) LBS.
DATE IN SERVICE - 1926-1930.
ENGINE Nos - REFER INDEX.

TOTAL WEIGHT OF ENGINE EMPTY LBS.
VALVE GEAR - WALSCHAERT.


COAL 14 TONS.
TYPE KT.
WATER 6000 GALS. NOMINAL.
PERMISSIBLE TENDERS:- TYPES KT.
6'-2¾" DIA. INS.
33-18
35-10
5'-7½" CL 15CB
CL 15CA 3'-8"
6'-10" 4'-1" 5'-3" 5'-3" 5'-3" 9'-0" 9'-2 3/16" 6'-2" 8'-1" 6'-2"
4'-3½" CL 15CB.
CL 15CA. 4'-4"
35'-8" TOTAL WHEELBASE OF ENGINE.
20'-5" TOTAL WHEELBASE OF TENDER
65'-3 3/16" TOTAL WHEELBASE OF ENGINE AND TENDER.
73'-3 3/16" (CL 15CA) 73'-2 3/16" (CL 15CB) OVER BUFFER FACES.

SCRAPPED

TOTAL WEIGHT OF ENGINE TONS CWT.

TOTAL WEIGHT OF TENDER 69 TONS 8 CWT.

CLASS 15CB (2)

WITH 4'-9" DIA. WHEELS.

HEATING SURFACE TUBES	2,554 SQ. FEET.
" " ARCH	23 " "
" " FIREBOX	200 " "
" " TOTAL	2,777 " "
SUPERHEATER AREA	716 " "
FIREGRATE AREA	48 " "

143 TUBES 2¼" EXT. DIA. 30 TUBES 5½" EXT. DIA.

20'-0½" BETWEEN TUBEPLATES.

FOR BOILERS 9504-1-6 SEE 15CA & 15CB REBOILERED, FOR BOILER PARTICULARS.

TRACTIVE FORCE (75%) 42440 LBS.

DATE IN SERVICE:- 1925-1926

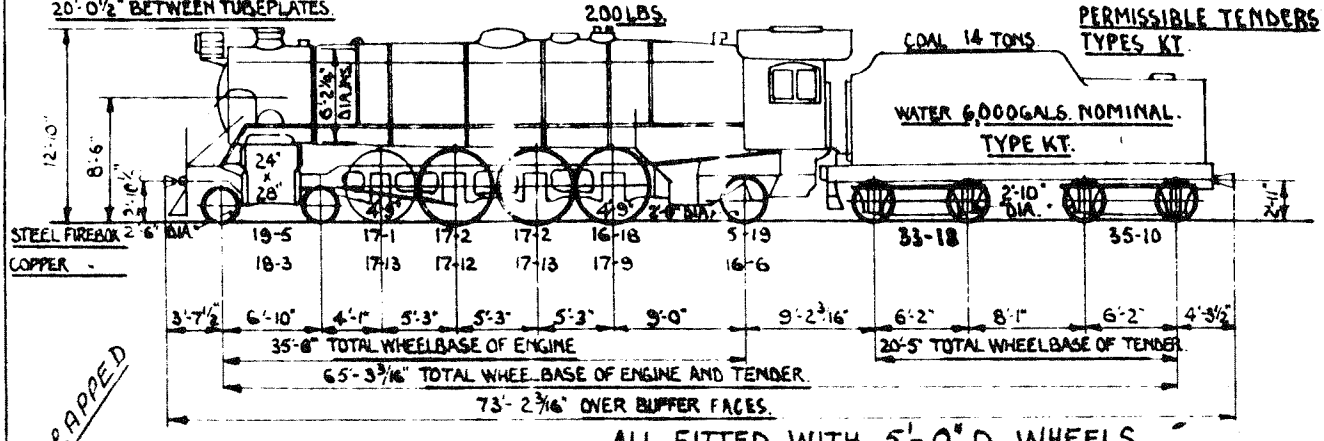
ENGINE Nos. REFER INDEX ITEM 130.

TOTAL WEIGHT OF ENGINE EMPTY - 214,596 LBS.

VALVE GEAR - WALSCHAERT.

FOR ENGINES WITH 23" CYLS. TRACTIVE FORCE (75%) = 38980 LBS.

PERMISSIBLE TENDERS TYPES KT.


200 LBS.
COAL 14 TONS
WATER 6,000 GALS. NOMINAL.
TYPE KT.
6'-2¾" DIA. INS.
24" x 28"
4'-9" DIA.
2'-10" DIA.
STEEL FIREBOX 2'-6" DIA.
COPPER "
19-5 17-1 17-2 17-2 16-18 5-19 33-18 35-10
18-3 17-13 17-12 17-13 17-9 16-6
3'-7½" 6'-10" 4'-1" 5'-3" 5'-3" 5'-3" 9'-0" 9'-2 3/16" 6'-2" 8'-1" 6'-2" 4'-3½"
35'-8" TOTAL WHEELBASE OF ENGINE
20'-5" TOTAL WHEELBASE OF TENDER.
65'-3 3/16" TOTAL WHEELBASE OF ENGINE AND TENDER.
73'-2 3/16" OVER BUFFER FACES.

SCRAPPED

ALL FITTED WITH 5'-0" D. WHEELS.

TOTAL WEIGHT OF ENGINE 103 TONS 7 CWT. (STEEL)
104 " 16 " (COPPER).

TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT WORKING ORDER

CLASS 15CB

WITH 5'-0" DIA. WHEELS.

DRG. No. BL. 145C

HEATING SURFACE TUBES	2,554 SQ. FEET.
" " ARCH	23 " "
" " FIREBOX	200 " "
" " TOTAL	2,777 " "
SUPERHEATER AREA	716 " "
FIREGRATE AREA	48 " "

143 TUBES 2¼" EXT. DIA. 30 TUBES 5½" EXT. DIA.

20'-0½" BETWEEN TUBEPLATES.

FOR BOILERS 9504-6 SEE 15CA & 15CB REBOILERED FOR BOILER PARTICULARS.

TRACTIVE FORCE (75%) 42340 LBS.

DATE IN SERVICE:- 1925-1926.

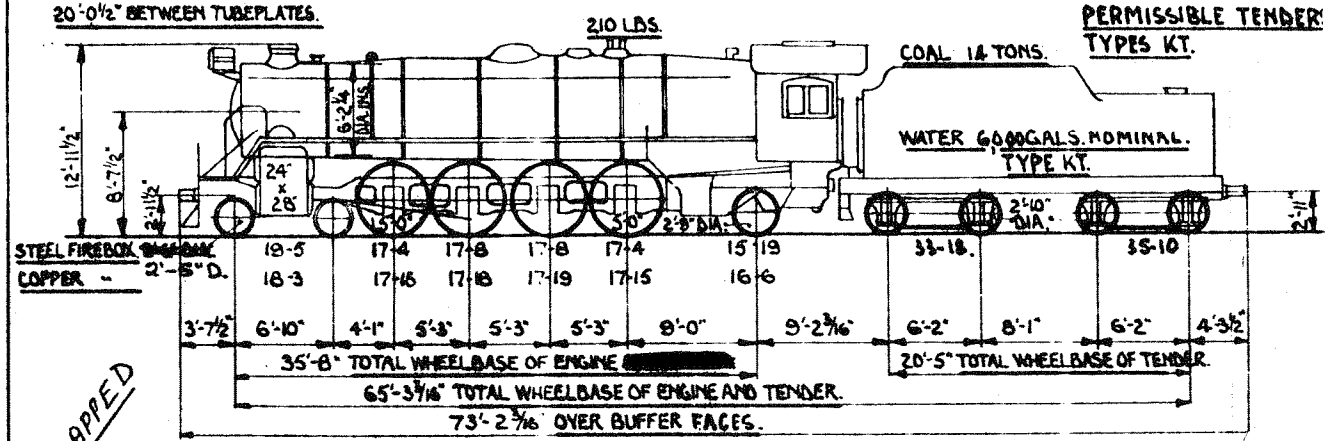
ENGINE Nos. REFER INDEX ITEM 129.

TOTAL WEIGHT OF ENGINE EMPTY 216,950 LBS.

VALVE GEAR - WALSCHAERT.

FOR ENGINES WITH 23" CYLS. TRACTIVE FORCE (75%) = 38880 LBS.

PERMISSIBLE TENDERS TYPES KT.


210 LBS.
COAL 14 TONS.
WATER 6,000 GALS. NOMINAL.
TYPE KT.
6'-2¾" DIA. INS.
24" x 28"
5'-0" DIA.
2'-10" DIA.
STEEL FIREBOX
COPPER "
2'-6" D.
19-5 17-4 17-8 17-8 17-4 15-19 33-18 35-10
18-3 17-16 17-18 17-19 17-15 16-6
3'-7½" 6'-10" 4'-1" 5'-3" 5'-3" 5'-3" 9'-0" 9'-2 3/16" 6'-2" 8'-1" 6'-2" 4'-3½"
35'-8" TOTAL WHEELBASE OF ENGINE
20'-5" TOTAL WHEELBASE OF TENDER.
65'-3 3/16" TOTAL WHEELBASE OF ENGINE AND TENDER.
73'-2 3/16" OVER BUFFER FACES.

SCRAPPED

TOTAL WEIGHT OF ENGINE 104 TONS 8 CWT. (STEEL)
105 " 17 " (COPPER).

TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER

CLASS 15E

STD. BOILER No. 38

HEATING SURFACE TUBES	3,168 SQ. FEET.
" " ARCH	26 " "
" " FIREBOX	206 " "
" " TOTAL	3,400 " "
SUPERHEATER AREA	676 " "
FIREGRATE AREA	63 " "

136 TUBES 2½" EXT. DIA. 36 TUBES 5½" EXT. DIA.

22'-6" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 42340 LBS

DATE IN SERVICE:- 1935-1937.

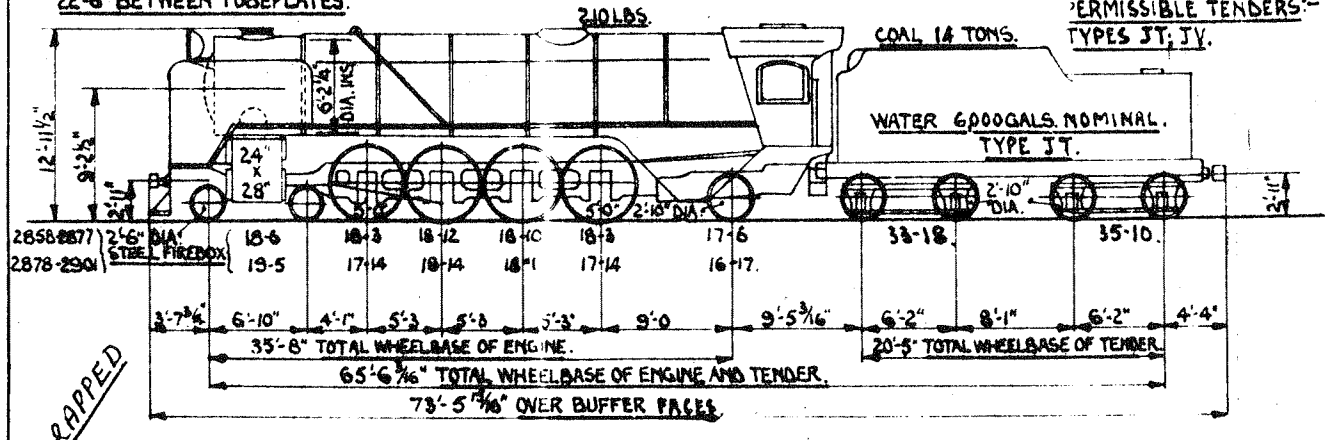
ENGINE Nos. REFER INDEX ITEM 189.

TOTAL WEIGHT OF ENGINE EMPTY.

VALVE GEAR - "R.C." POPPET.

DRAWING SERIAL C.E. Nos. A. 14464 & 14636.

PERMISSIBLE TENDERS:- TYPES JT; JV.


210 LBS.
COAL 14 TONS.
WATER 6,000 GALS. NOMINAL.
TYPE JT.
6'-2¾" DIA. INS.
24" x 28"
5'-0" DIA.
2'-10" DIA.
2858-2877 2'-6" DIA.
2878-2901 STEEL FIREBOX
18-6 18-3 18-12 18-10 18-3 17-6 33-18 35-10
19-5 17-14 18-14 18-11 17-14 16-17
3'-7¾" 6'-10" 4'-1" 5'-3" 5'-3" 5'-3" 9'-0 9'-5 3/16" 6'-2" 8'-1" 6'-2" 4'-4"
35'-8" TOTAL WHEELBASE OF ENGINE.
20'-5" TOTAL WHEELBASE OF TENDER.
65'-6 3/16" TOTAL WHEELBASE OF ENGINE AND TENDER.
73'-5 13/16" OVER BUFFER FACES

SCRAPPED

TOTAL WEIGHT OF ENGINE Nos 2858-2877. 109 TONS. 0 CWT.
" " 2878-2901 108 " 4 "

TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER.

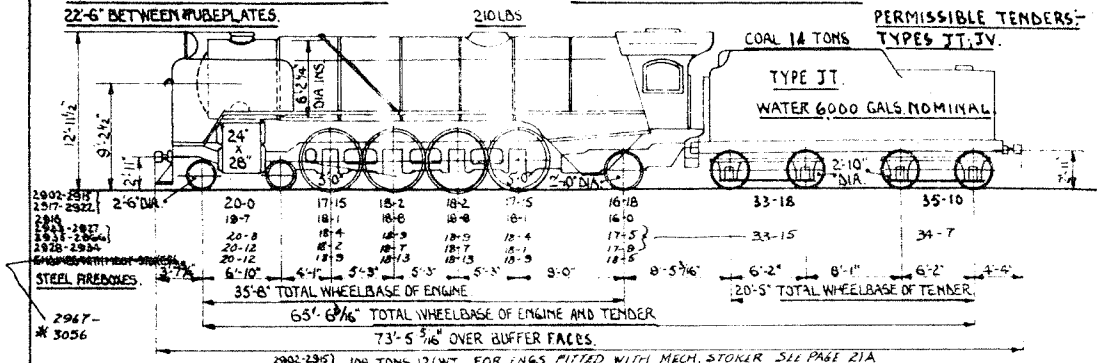
CLASS 15F
STD. BOILER NO 38.

HEATING SURFACE TUBES 3,168 SQ. FEET.
" " ARCH " 26 " " .
" " FIREBOX 206 " " .
" " TOTAL 3,400 " " .
SUPERHEATER AREA 676 " " .
FIREGRATE AREA 63 " " .
136 TUBES 2½" EXT. DIA. 36 TUBES 5½" EXT. DIA.
22'-6" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 42340 LBS.
DATE IN SERVICE 1938-1939, 1944-1946.
ENGINE Nos REFER INDEX ITEM 190.

TOTAL WEIGHT OF ENGINE EMPTY -
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos A 14946 & 15004 & 15630

PERMISSIBLE TENDERS:- TYPES JT, JV.



2902-2915, 2917-2922: 108 TONS 12 CWT. FOR ENGS. FITTED WITH MECH. STOKER SEE PAGE 21A
2916, 2923-2927, 2955-2966: 108 " 5 "
2928-2934: 113 TONS 1 CWT.

TOTAL WEIGHT OF ENGINE.

TOTAL WEIGHT OF TENDER 69 TONS. 8 CWT. WORKING ORDER.

CLASS 16.

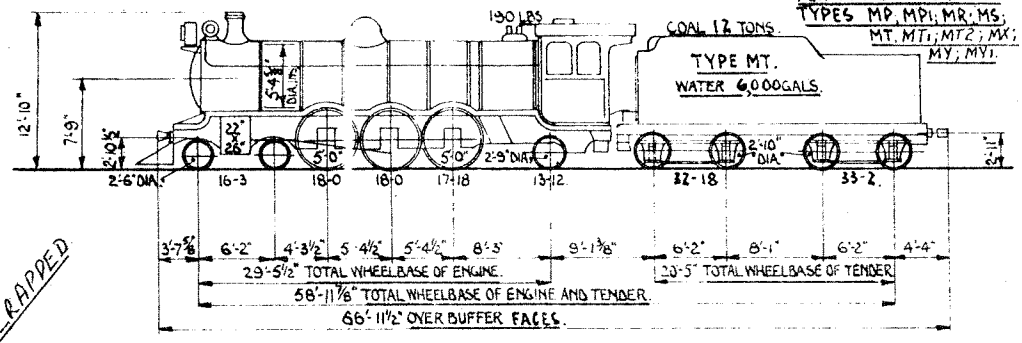
HEATING SURFACE TUBES. 2,040 SQ. FEET.
" " FIREBOX. 146 " " .
" " TOTAL 2,186 " " .
SUPERHEATER AREA. 515 " " .
FIREGRATE AREA. 37 " " .
131 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
18'-3" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILERS

TRACTIVE FORCE (75%) 29890 LBS.
DATE IN SERVICE:- 1914.
ENGINE Nos REFER INDEX ITEM 30.

TOTAL WEIGHT OF ENGINE EMPTY. 170,716 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. No A 5535.

PERMISSIBLE TENDERS:- TYPES MP, MP1; MR; MS; MT, MT1; MT2; MX; MY; MY1.



SCRAPPED

TOTAL WEIGHT OF ENGINE. 83 TONS 1 CWT.

TOTAL WEIGHT OF TENDER 66 TONS. 0 CWT. WORKING ORDER.

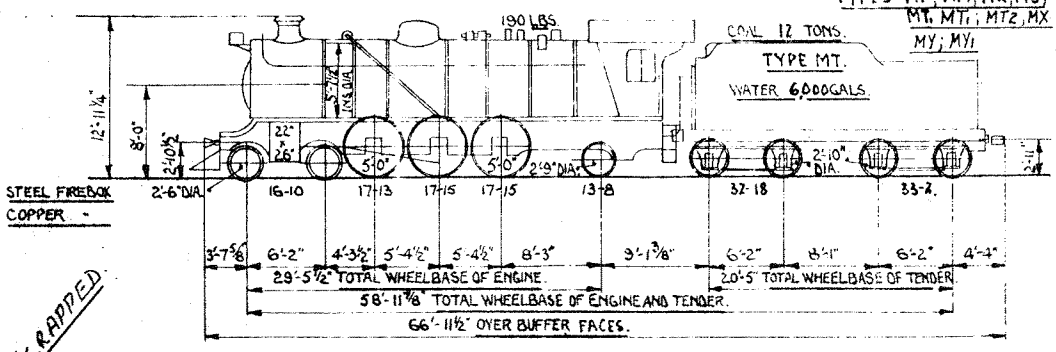
CLASS 16R.
STD. BOILER No 28.

HEATING SURFACE TUBES. 1,836 SQ. FEET.
" " FIREBOX. 142 " " .
" " TOTAL. 1978 " " .
SUPERHEATER AREA 472 " " .
FIREGRATE AREA. 37 " " .
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
18'-4" (STEEL) & 18'-3⅝" (COPPER) BETWEEN TUBEPLATES

TRACTIVE FORCE (75%) 29890 LBS.
DATE IN SERVICE - 1914.
ENGINE Nos REFER INDEX ITEM 29.

TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:- TYPES MP; MP1; MR; MS; MT, MT1; MT2; MX; MY; MY1.



SCRAPPED

TOTAL WEIGHT OF ENGINE. 82 TONS. 19 CWT. (STEEL) TOTAL WEIGHT OF TENDER. 66 TONS. 0 CWT. WORKING ORDER.

HEATING SURFACE				
"	" ARCH	"	26	" "
"	" FIREBOX	"	206	" "
"	" TOTAL		3400	" "
SUPERHEATER AREA			676	" "
FIREGRATE AREA			33	" "

136 TUBES 2¼" EXT. DIA. 36 TUBES 5½" EXT. DIA.
22'-6" BETWEEN TUBEPLATES.
STEEL FIREBOX.

TRACTIVE FORCE (75%) 42340 LBS
DATE IN SERVICE:
ENGINE Nos REFER INDEX ITEM 191
TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR:- WALSCHAERT
DRAWING SERIAL C.E. Nos A.15800.

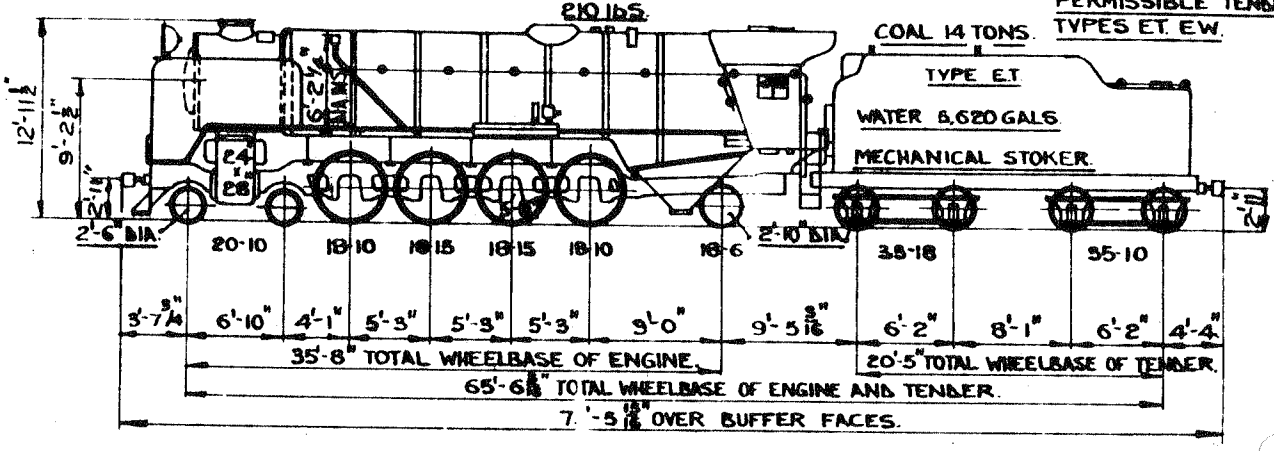
CLASS 15F

STD. BOILER No 3B.

210 165

PERMISSIBLE TENDERS
TYPES ET. EW.

COAL 14 TONS.
TYPE ET
WATER 5,620 GALS.
MECHANICAL STOKER.



TOTAL WEIGHT OF ENGINE:- 113 TON. 6 CWT.

TOTAL WEIGHT OF TENDER:-69 TONS. 8 CWT. WORKING ORDER.

CLASS 16B

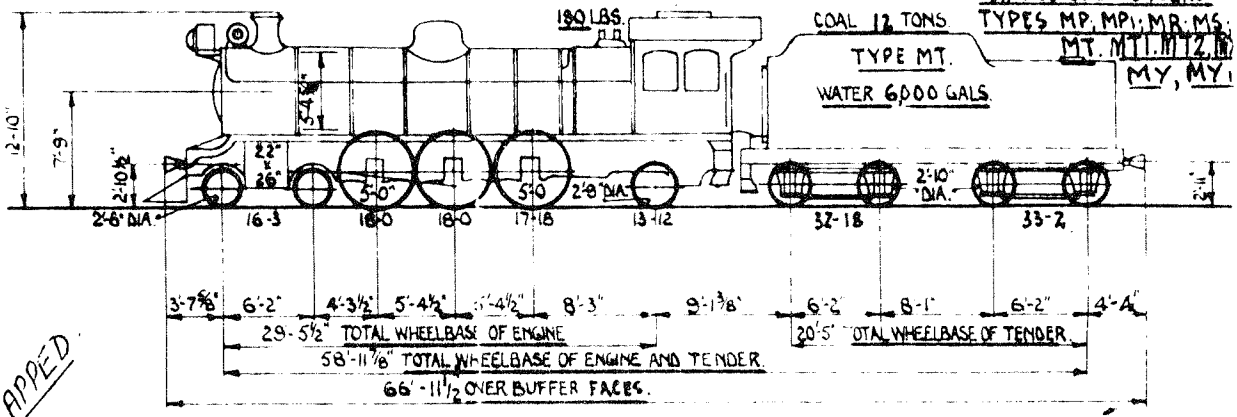
HEATING SURFACE TUBES. 2,040 SQ. FEET.
" " FIREBOX 146 " "
" " TOTAL 2,186 " "
SUPERHEATER AREA 516 " "
FIREGRATE AREA. 37 " "
131 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
18'-3" BETWEEN TUBEPLATES

FITTED WITH STD. BOILERS

TRACTIVE FORCE (75%) 29890 LBS.
DATE IN SERVICE - 1917-1918.
ENGINE Nos. REFER INDEX ITEM 32.

TOTAL WEIGHT OF ENGINE EMPTY 169,008 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. No A. 8095.

PERMISSIBLE TENDERS:- TYPES MP, MP1, MR, MS, MT, MT1, MT2, MX, MY, MY1.



SCRAPPED

TOTAL WEIGHT OF ENGINE 83 TONS 13 CWT. TOTAL WEIGHT OF TENDER 66 TONS 0 CWT. WORKING ORDER.

CLASS 16C

WITH 5'-0" DIA. WHEELS.

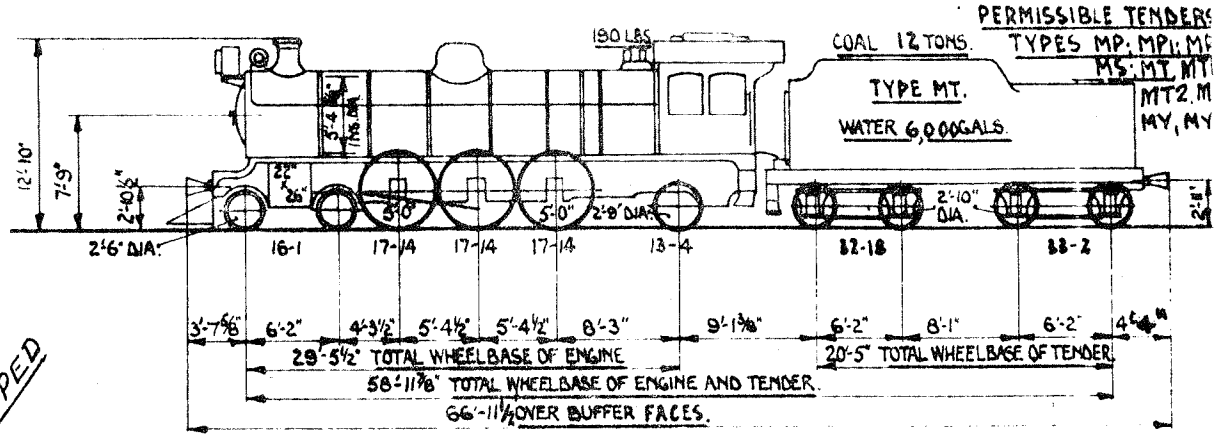
HEATING SURFACE TUBES 1,538 SQ. FEET.
" " FIREBOX 178 " "
" " TOTAL 1,712 " "
SUPERHEATER AREA 313 " "
FIREGRATE AREA. 37 " "
113 TUBES 2¼" EXT. DIA. & 21 TUBES 5½" EXT. DIA.
15'-10½" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILERS.

TRACTIVE FORCE (75%) 29890 LBS.
DATE IN SERVICE:- 1919-1922
ENGINE Nos REFER INDEX ITEM 33.

TOTAL WEIGHT OF ENGINE EMPTY. 168,896 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. No A. 8087 & 9593.

PERMISSIBLE TENDERS: TYPES MP, MP1, MR, MS, MT, MT1, MT2, MX, MY, MY1.



SCRAPPED

TOTAL WEIGHT OF ENGINE. 82 TONS. 7 CWT. TOTAL WEIGHT OF TENDER. 66 TONS. 0 CWT. WORKING ORDER.

CLASS 16C

WITH 5'-3" DIA. WHEELS.

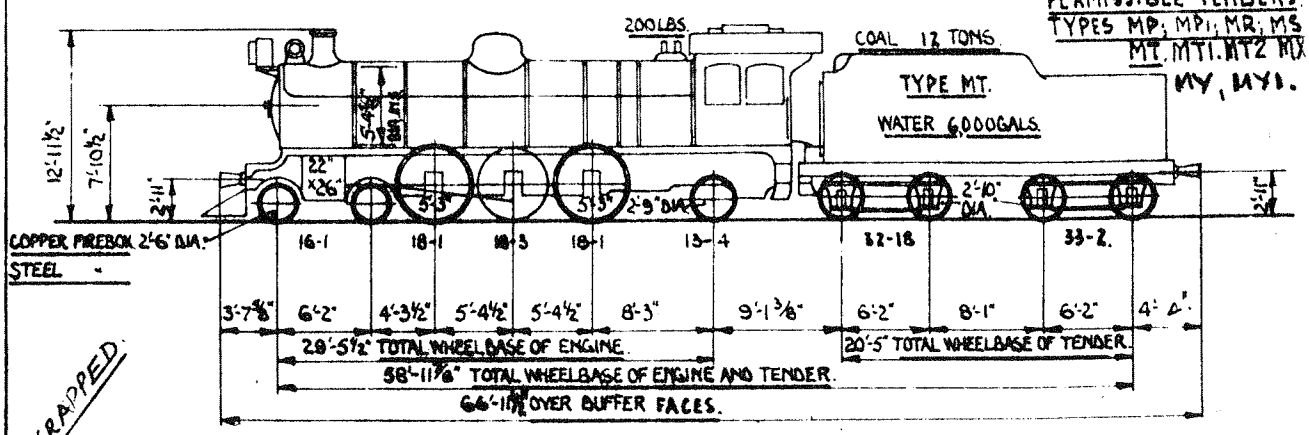
HEATING SURFACE TUBES. 1,534 SQ. FEET.
" " FIREBOX 178 " "
" " TOTAL 1,712 " "
SUPERHEATER AREA 313 " "
FIREGRATE AREA. 37 " "
113 TUBES 2¼" EXT. DIA. 21 TUBES 5½" EXT. DIA.
15'-10½" BETWEEN TUBEPLATES.

FITTED WITH STD. BOILERS.

TRACTIVE FORCE (75%) 29960 LBS.
DATE IN SERVICE :- 1918-1922.
ENGINE Nos. REFER INDEX ITEM 34.

TOTAL WEIGHT OF ENGINE EMPTY:- 171,470 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS: TYPES MP, MP1, MR, MS, MT, MT1, MT2, MX, MY, MY1.



SCRAPPED.

TOTAL WEIGHT OF ENGINE 83 TONS. 10 CWT. (COPPER) TOTAL WEIGHT OF TENDER. 66 TONS. 0 CWT. WORKING ORDER.

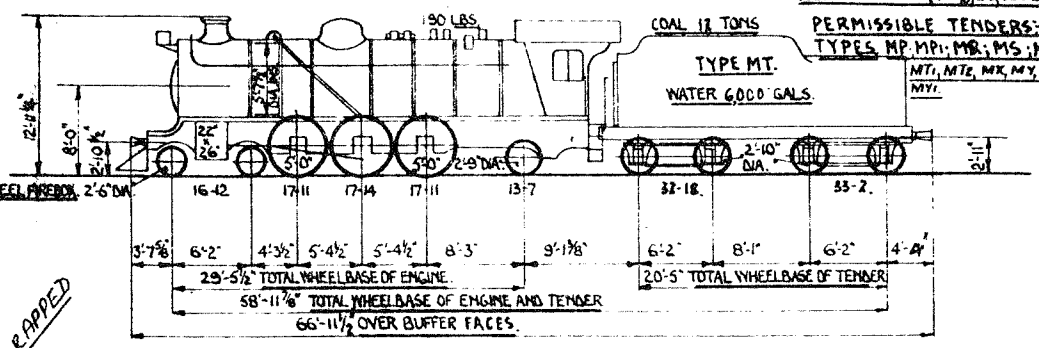
CLASS 16CR

STD. BOILER Nº 2B.

HEATING SURFACE TUBES 1836 SQ. FEET
" " FIREBOX 142 " "
" " TOTAL 1978 " "
SUPERHEATER AREA 473 " "
FIREGRATE AREA 37 " "
87 TUBES 2½" EXT. DIA. 30 TUBES 5½" EXT. DIA.
18'-4" (STEEL) & 18'-3⅝" (COPPER) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 29890 LBS.
DATE IN SERVICE:- 1917-1922.
ENGINE Nºs. REFER INDEX ITEMS 31635.

TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR - WALSCHAERT.
FOR ENGINES WITH 5'-3" WHEELS B.P. 200 LBS | D"
TRACTIVE FORCE (75%) 29,960 LBS



SCRAPPED

TOTAL WEIGHT OF ENGINE 82 TONS 15 CWT. (STEEL)
TOTAL WEIGHT OF TENDER 66 TONS 0 CWT. WORKING ORDER.

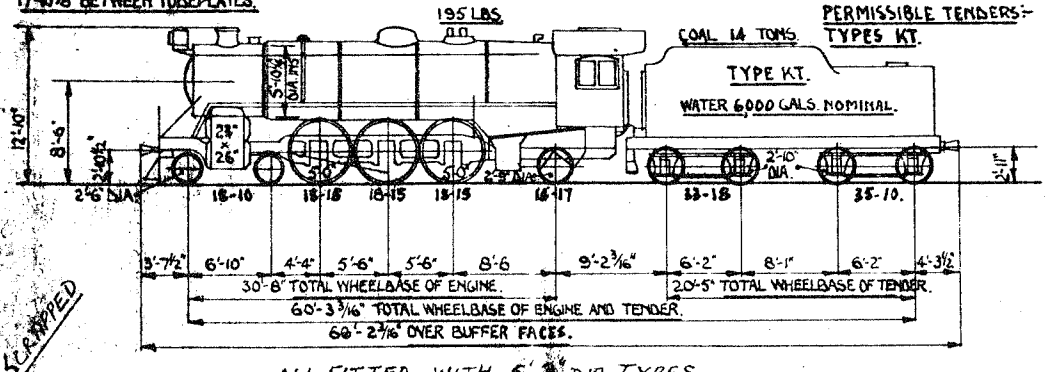
AMENDED PER INSTR. SS16 6-11-30

CLASS 16D

HEATING SURFACE TUBES ~~2000~~ SQ. FEET. 2453
" " ARCH 22 " "
" " FIREBOX 164 " "
" " TOTAL 2686 " "
SUPERHEATER AREA 593 " "
FIREGRATE AREA 45 " "
181 ~~196~~ TUBES 2" EXT. DIA. 30 TUBES 5⅜" EXT. DIA.
17-10⅜" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 33530 LBS.
DATE IN SERVICE:- 1925-1926
ENGINE Nºs. REFER INDEX ITEM 39.

TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR - WALSCHAERT.
FOR ENGINES WITH 22" CYLS., TRACTIVE FORCE (75%) 30670 LBS.



SCRAPPED

ALL FITTED WITH 5'-3" DIA. TYRES
TOTAL WEIGHT OF ENGINE. 89 TONS 12 CWT.
TOTAL WEIGHT OF TENDER. 69 TONS 8 CWT. WORKING ORDER.

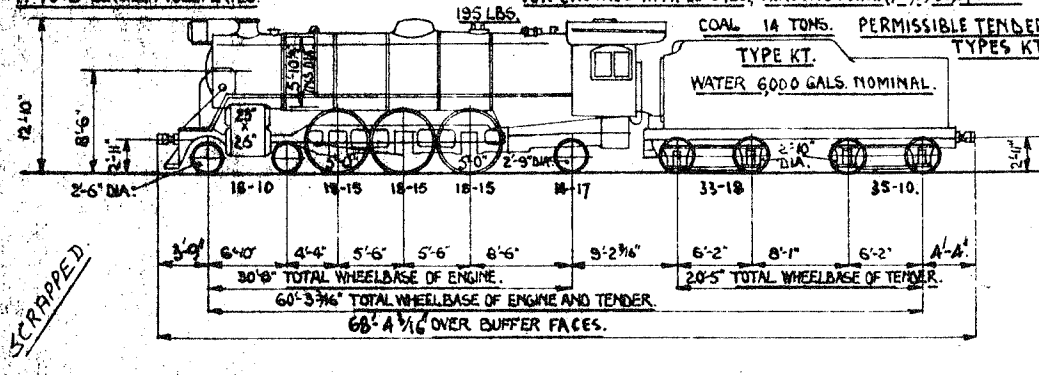
AMENDED PER INSTR. SS16 6-11-30

CLASS 16DA.

FOR 16DA WITH WIDE FIREBOX SEE PAGE 24.
(ENG. Nºs 874 - 879.)

HEATING SURFACE TUBES ~~2000~~ SQ. FEET. 2453
" " ARCH TUBES. 22 " "
" " FIREBOX 164 " "
" " TOTAL 2686 " "
SUPERHEATER AREA 593 " "
FIREGRATE AREA 45 " "
181 ~~196~~ TUBES 2" EXT. DIA. 30 TUBES 5⅜" EXT. DIA.
17-10⅜" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 33530 LBS.
DATE IN SERVICE:- 1928.
ENGINE Nºs. REFER INDEX ITEM 36.
TOTAL WEIGHT OF ENGINE EMPTY: 181,700 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nºs A. 13225 & 13708.
FOR ENGINES WITH 22" CYLS., TRACTIVE FORCE (75%) 30670 LBS.



SCRAPPED

TOTAL WEIGHT OF ENGINE. 89 TONS 12 CWT.
TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER.

CLASSES 16D & 16DA. 2

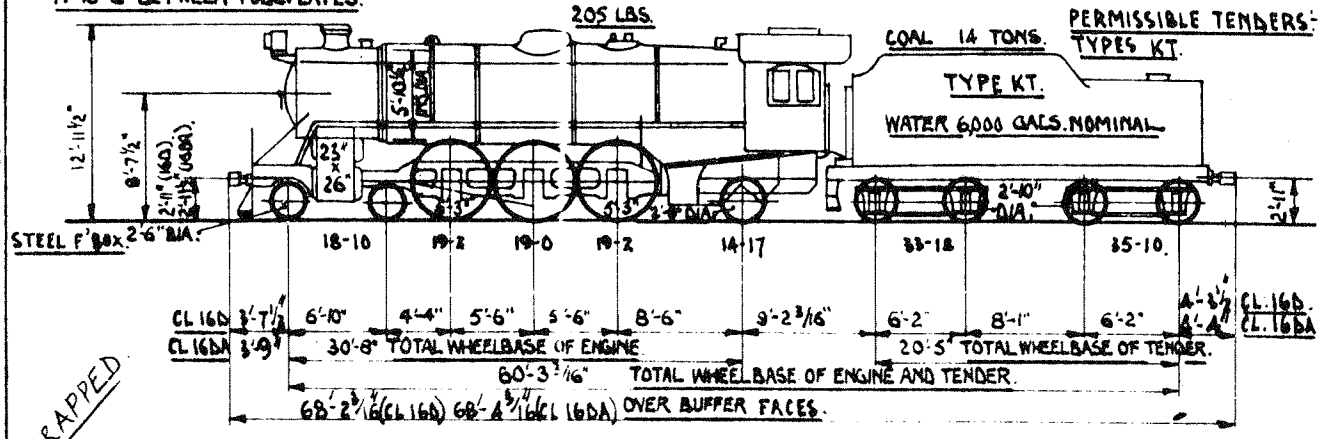
WITH 5'-3" DIA. WHEELS.

HEATING SURFACE TUBES. ~~4500~~ SQ. FEET. 2453.
" " ARCH " 22 " "
" " FIREBOX. 164 " "
" " TOTAL. 2686 " "
SUPERHEATER AREA. 593 " "
FIREGRATE AREA. 45 " "
181 ~~186~~ TUBES 2" EXT. DIA. 30 TUBES 5 ⅝" EXT. DIA.
17'-10 ⅝" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 33570 LBS.
DATE IN SERVICE - 1925-1928.
ENGINE Nos. REFER INDEX ITEM 37.

TOTAL WEIGHT OF ENGINE EMPTY. 183,828 LBS.
VALVE GEAR - WALSCHAERT.
FOR ENGINES WITH 22" CYLS. TRACTIVE FORCE (75%) 30710 LBS.

PERMISSIBLE TENDERS:-
TYPES KT.



SCRAPPED

TOTAL WEIGHT OF ENGINE. 90 TONS. 11 CWT. TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER.

CLASS 16DA.

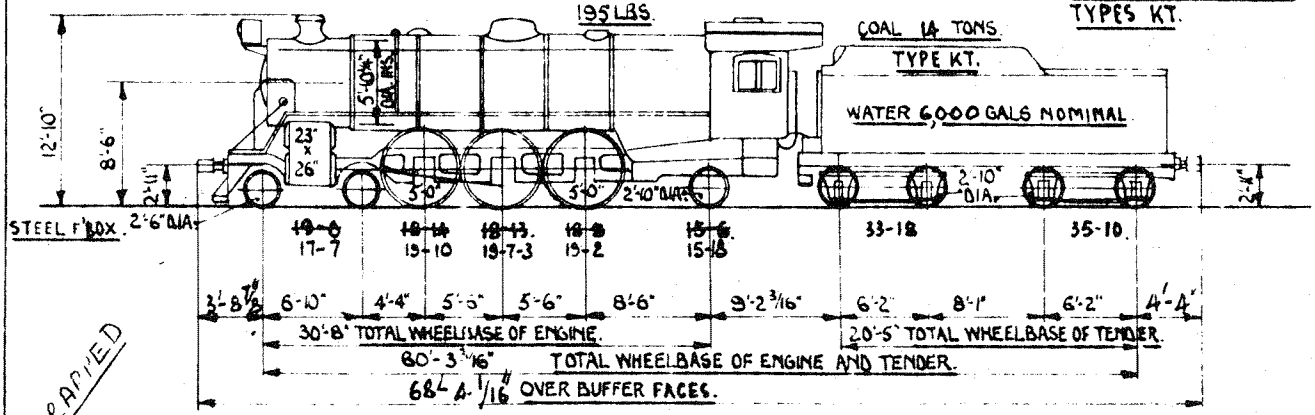
ENGINE Nos. 874-879.
WITH 5'-0" DIA. WHEELS.

HEATING SURFACE TUBES. 2371 SQ. FEET.
" " ARCH " 22 " "
" " FIREBOX. 172 " "
" " TOTAL. 2565 " "
SUPERHEATER AREA. 620 " "
FIREGRATE AREA. 60 " "
142 TUBES 2¼" EXT. DIA. 34 TUBES 5½" EXT. DIA.
17'-10 ⅝" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 33530 LBS.
DATE IN SERVICE - 1930
ENGINE Nos. REFER INDEX ITEM 40.

TOTAL WEIGHT OF ENGINE EMPTY. 181,300 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E No. A 13814

PERMISSIBLE TENDERS:-
TYPES KT.



SCRAPPED

31 TONS 4 CWT. 3QRS.
TOTAL WEIGHT OF ENGINE. ~~90~~ TONS. ~~1~~ CWT. TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER.

CLASS 16DA.

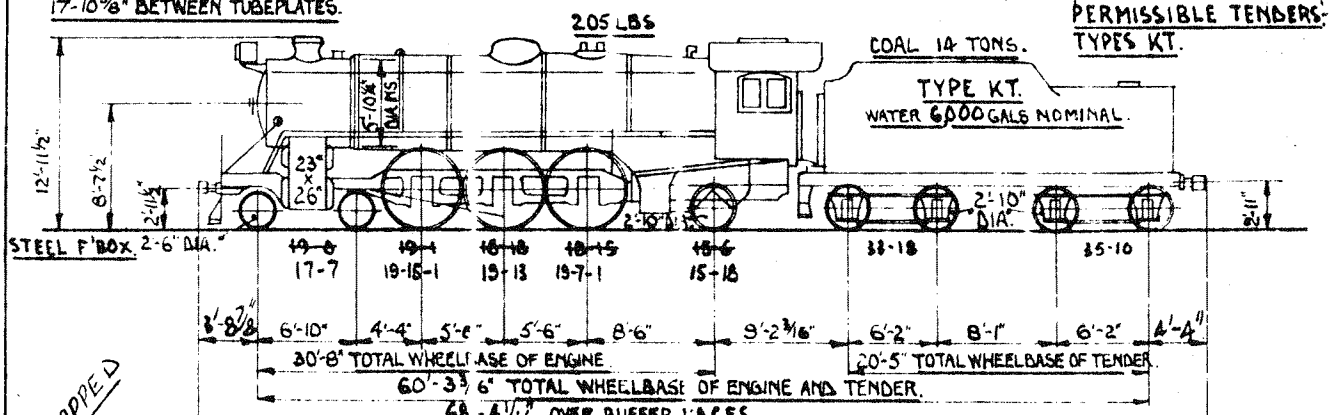
ENGINE Nos. 874-879.
WITH 5'-3" DIA. WHEELS.

HEATING SURFACE TUBES. 2371 SQ. FEET.
" " ARCH " 22 " "
" " FIREBOX. 172 " "
" " TOTAL. 2565 " "
SUPERHEATER AREA. 620 " "
FIREGRATE AREA. 60 " "
142 TUBES 2¼" EXT. DIA. 34 TUBES 5½" EXT. DIA.
17'-10 ⅝" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 33570 LBS.
DATE IN SERVICE - 1930
ENGINE Nos. REFER INDEX. 41

TOTAL WEIGHT OF ENGINE EMPTY. 183,430 LBS.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPES KT.



SCRAPPED

52 TONS 0 CWT. 2QRS.

CLASS 16E.

STD. BOILER No. 3A.

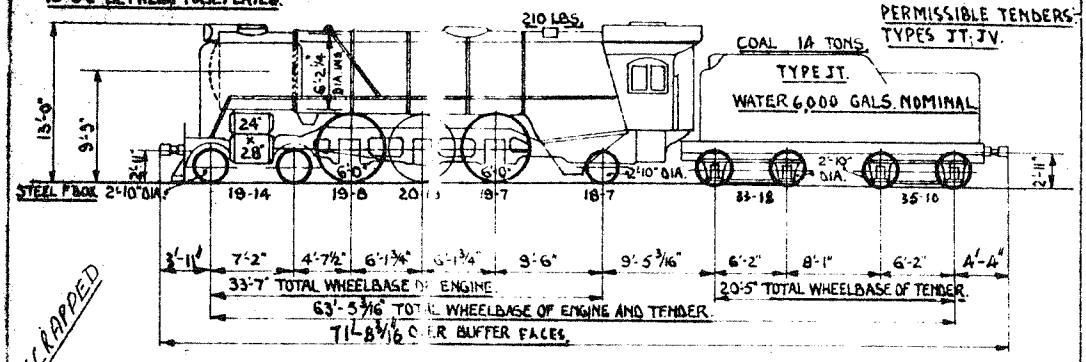
HEATING SURFACE TUBES	2682 SQ. FEET.
" ARCH	26 " "
" FIREBOX	206 " "
" TOTAL	2914 " "
SUPERHEATER AREA	692 " "
FIREGRATE AREA	63 " "

156 TUBES 2½" EXT. DIA. 34 TUBES 5½" EXT. DIA.
19'-0½" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 35280 LBS.
DATE IN SERVICE:- 1935
ENGINE Nos. REFER INDEX ITEM 38.

TOTAL WEIGHT OF ENGINE EMPTY 192,500 LBS.
VALVE GEAR - "R.C." POPPET.
DRAWING SERIAL C.E. No. A. 14443.

PERMISSIBLE TENDERS:- TYPES JT; JV.



SCRAPPED

TOTAL WEIGHT OF ENGINE 97 TONS 15 CWT. TOTAL WEIGHT OF TENDER. 69 TONS. 8 CWT. WORKING ORDER.

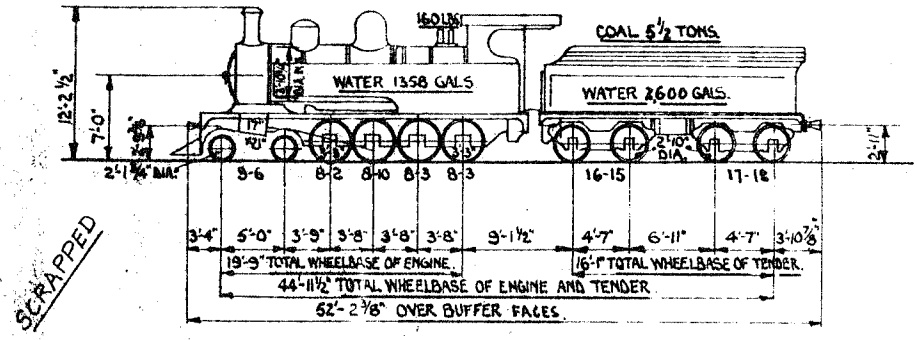
CLASS 17.

CLASS "A" B.E.P. CONVERTED.

HEATING SURFACE TUBES	930 SQ. FEET.
" FIREBOX	62 " "
" TOTAL	992 " "
FIREGRATE AREA.	24 " "

187 TUBES 1¾" EXT. DIA.
10'-10⅛" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 18670 LBS.
DATE IN SERVICE:- 1890-1900.
ENGINE Nos. REFER INDEX ITEM 77.
TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR - STEPHENSON.



SCRAPPED

TOTAL WEIGHT OF ENGINE 42 TONS. 4 CWT. TOTAL WEIGHT OF TENDER. 34 TONS. 13 CWT. WORKING ORDER.

CLASS 18.

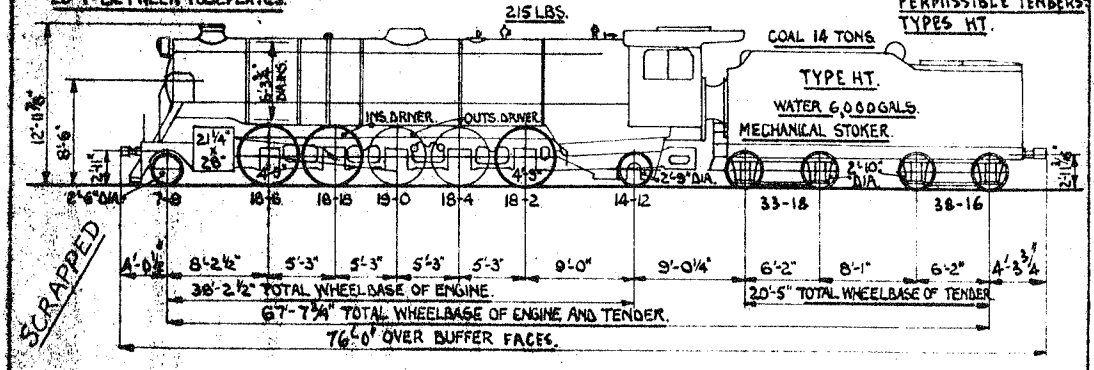
3 CYLINDER.

HEATING SURFACE TUBES.	2945 SQ. FEET
" ARCH -	21 " "
" FIREBOX.	265 " "
" TOTAL.	3231 " "
SUPERHEATER AREA.	850 " "
FIREGRATE AREA.	60 " "

160 TUBES 2¼" EXT. DIA. 34 TUBES 5½" EXT. DIA.
20'-7" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 53650 LBS.
DATE IN SERVICE:- 1927.
ENGINE Nos. REFER INDEX ITEM 71.
TOTAL WEIGHT OF ENGINE EMPTY. 222,824 LBS.
DRAWING SERIAL C.E. No. A. 12763.
VALVE GEAR - WALSCHAERT. OUTSIDE; GRESLEY INSIDE.

PERMISSIBLE TENDERS:- TYPES HT.



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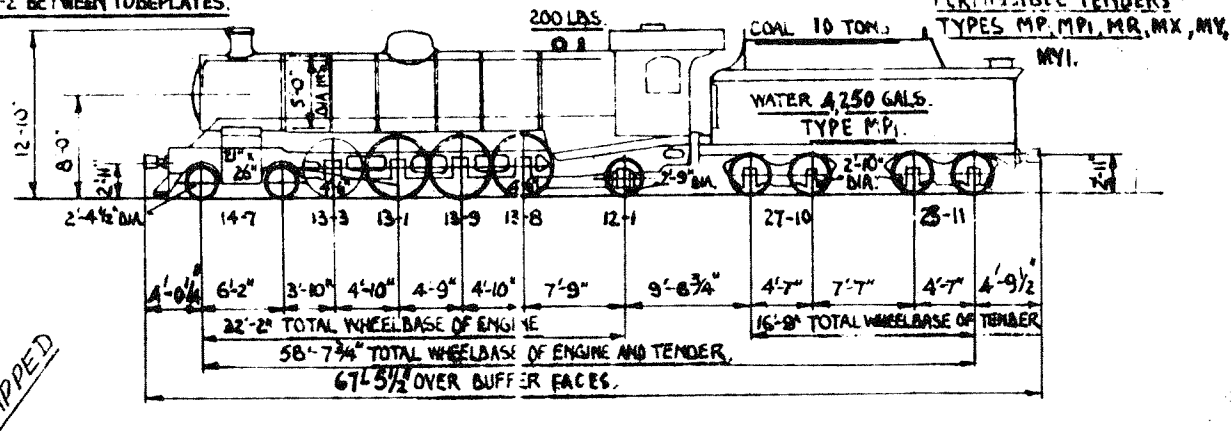
TOTAL WEIGHT OF ENGINE. 114 TONS. 11 CWT. TOTAL WEIGHT OF TENDER. 72 TONS. 14 CWT. WORKING ORDER.

HEATING SURFACE TUBES	2,036 SQ. FEET.
" ARCH "	13 " "
" FIREBOX	127 " "
" TOTAL	2,176 " "
SUPERHEATER AREA	586 " "
FIREGRATE AREA	37 " "

120 TUBES 2¼" EXT. DIA 21 TUBES 5½" EXT. DIA.
20'-2" BETWEEN TUBEPLATES.

TRACTIVE FORCE (T5%) 31850 LBS.
DATE IN SERVICE:- 1928.
ENGINE Nos. REFER INDEX ITEM 72.
TOTAL WEIGHT OF ENGINE EMPTY 160,100 LBS.
DRAWING SERIAL C.E. No. A 13226.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS - TYPES MP, MPI, MR, MX, MY, MYI.



SCRAPPED

TOTAL WEIGHT OF ENGINE 79 TONS, 9 CWT. TOTAL WEIGHT OF TENDER 51 TONS 1 CWT. WORKING ORDER.

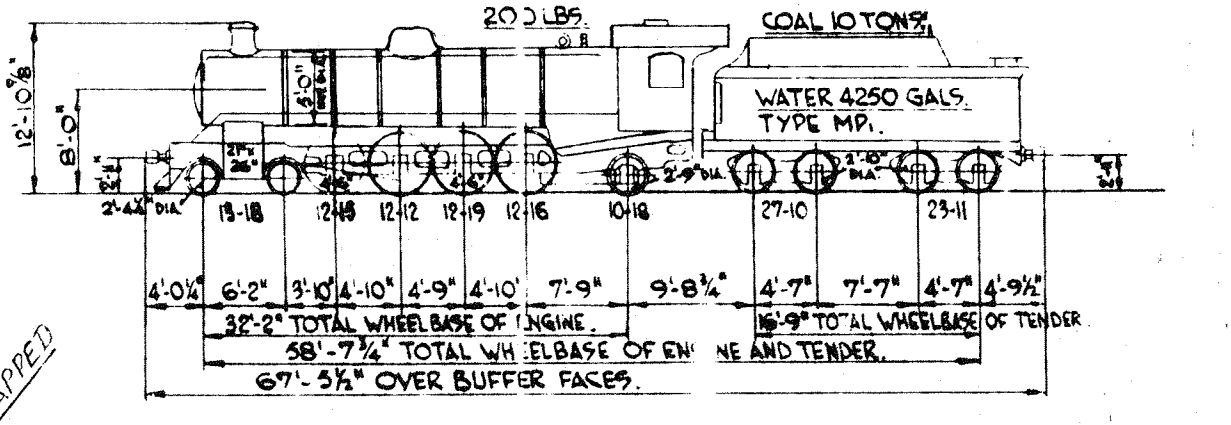
HEATING SURFACE TUBES	1,700 SQ FT
HEATING SURFACE ARCH TUBES	16 SQ FT (WHERE FITTED)
HEATING SURFACE FIREBOX	123 SQ FT
HEATING SURFACE TOTAL	1,839 SQ FT (WITH ARCH TUBES)
SUPERHEATER AREA	404 SQ.FT.
FIREGRATE AREA	36 SQ.FT.

76 TUBES 2½" EXT. DIA. 24 TUBES 5½" EXT. DIA
20'-2" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31850 LBS.
DATE IN SERVICE:- 1928
ENGINE Nos. REFER INDEX ITEM 82.
TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR - WALSCHAERT.

CLASS 19R
STD. BOILER No. 1A.

PERMISSIBLE TENDERS - TYPES MP, MPI, MR, MX, MY, MYI.



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TOTAL WEIGHT OF ENGINE. 75 TONS 18 CWT. TOTAL WEIGHT OF TENDER 51 TONS 1 CWT. (WORKING ORDER.)

HEATING SURFACE TUBES	1,627 SQ. FEET.
" ARCH "	15 " "
" FIREBOX	125 " "
" TOTAL	1667 " "
SUPERHEATER AREA	415 " "
FIREGRATE AREA	36 " "

86 TUBES 2¼" EXT. DIA. 18 TUBES 5½" EXT. DIA.
20'-0⅞" BETWEEN TUBEPLATES. (COMPO. FIREBOX)

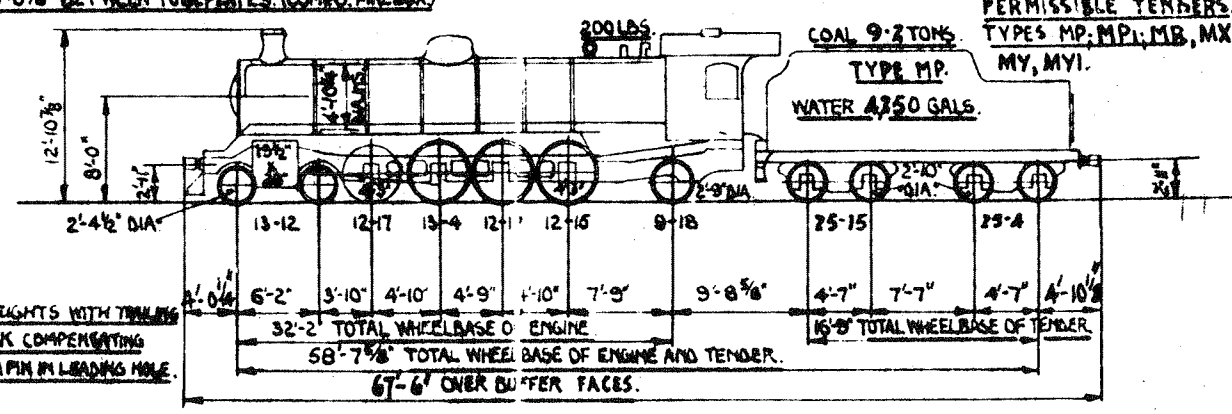
SCRAPPED

TRACTIVE FORCE (75%) 29080 LBS.
DATE IN SERVICE - 1929.
ENGINE Nos. REFER INDEX ITEM 18.

CLASS 19A

TOTAL WEIGHT OF ENGINE EMPTY. 147,810 LBS.
DRAWING SERIAL C.E. No. A. 13383.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS - TYPES MP, MPI, MB, MX, MY, MYI.



N.B. WEIGHTS WITH TRAILING TRUCK COMPENSATING BEAM PIN IN LEADING HOLE.

CLASS 19AR.

STD. BOILER No 1A.

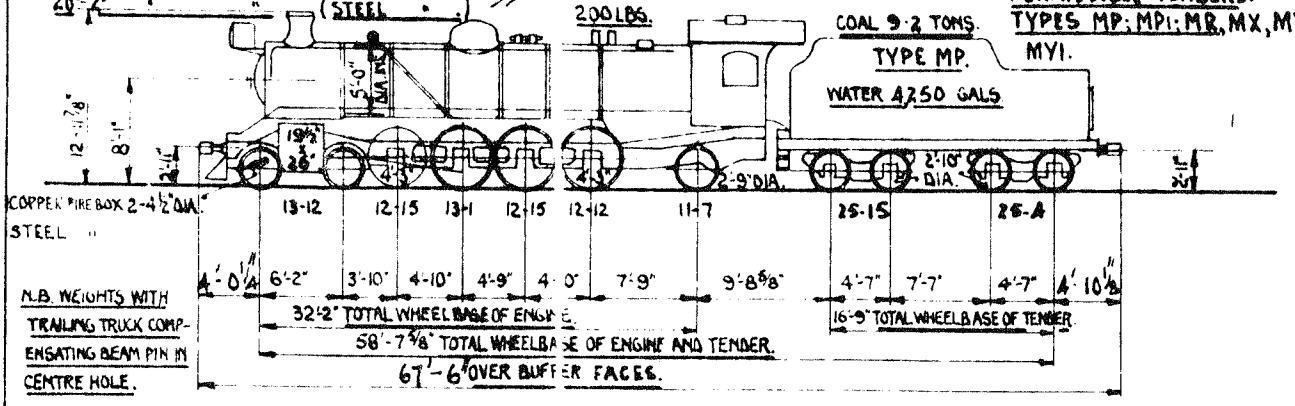
HEATING SURFACE TUBES 1,700 SQ. FEET.
" " ARCH " 16 " " WHERE FITTED.
" " FIREBOX 123 " "
" " TOTAL 1,839 " " WITH ARCH TUBES.
SUPERHEATER AREA. 404 " ".
FIREGRATE AREA 36 " ".
76 TUBES 2½" EXT. DIA 24 TUBES 5½" EXT. DIA.
20'-2" BETWEEN TUBEPLATES. (COMPO. FIREBOX.)
20'-2" " (STEEL ")

SCRAPPED

TRACTIVE FORCE (75%) 29080 LBS.
DATE IN SERVICE - 1929
ENGINE Nos. REFER INDEX ITEM 19.

TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPES MP; MPi; MR, MX, MY, MYI.



N.B. WEIGHTS WITH TRAILING TRUCK COMPENSATING BEAM PIN IN CENTRE HOLE.

TOTAL WEIGHT OF ENGINE. 76 TONS. 2 CWT. (COPPER) TOTAL WEIGHT OF TENDER. 50 TONS. 19 CWT. WORKING ORDER.

CLASS 19B.

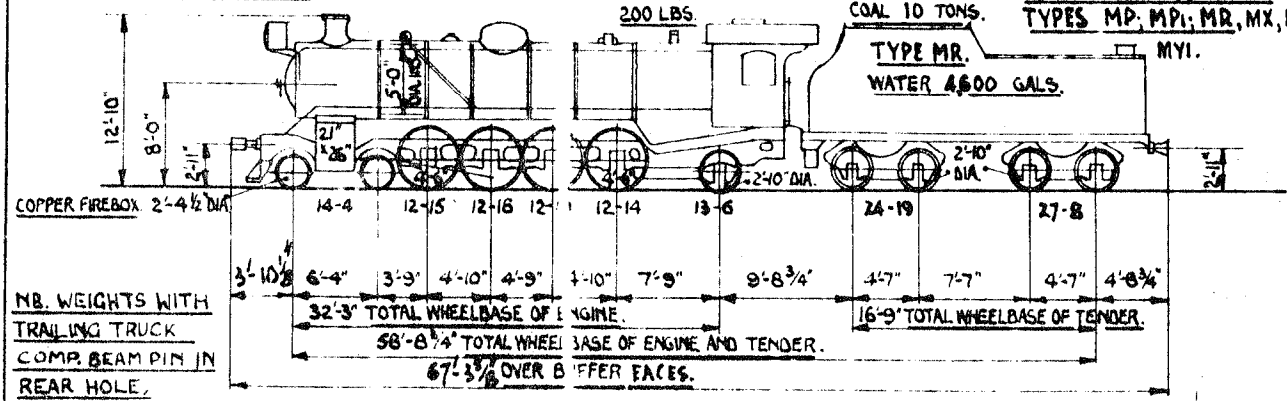
HEATING SURFACE TUBES. 2036 SQ. FEET.
" " ARCH " 15 " "
" " FIREBOX. 127 " "
" " TOTAL 2176 " "
SUPERHEATER AREA. 506 " ".
FIREGRATE AREA. 37 " ".
120 TUBES 2¼" EXT. DIA. 21 TUBES 5½" EXT. DIA.
20'-2" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 31850 LBS.
DATE IN SERVICE:- 1930.
ENGINE Nos. REFER INDEX ITEM 75.

TOTAL WEIGHT OF ENGINE EMPTY. 158,800 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. No. A. 13849.

PERMISSIBLE TENDERS:-
TYPES MP; MPi; MR, MX, MY, MYI.



NB. WEIGHTS WITH TRAILING TRUCK COMP. BEAM PIN IN REAR HOLE.

TOTAL WEIGHT OF ENGINE. 78 TONS. 14 CWT. (COPPER F/BOX) TOTAL WEIGHT OF TENDER. 52 TONS. 7 CWT. WORKING ORDER.

CLASS 19BR.

STD. BOILER No 1A.

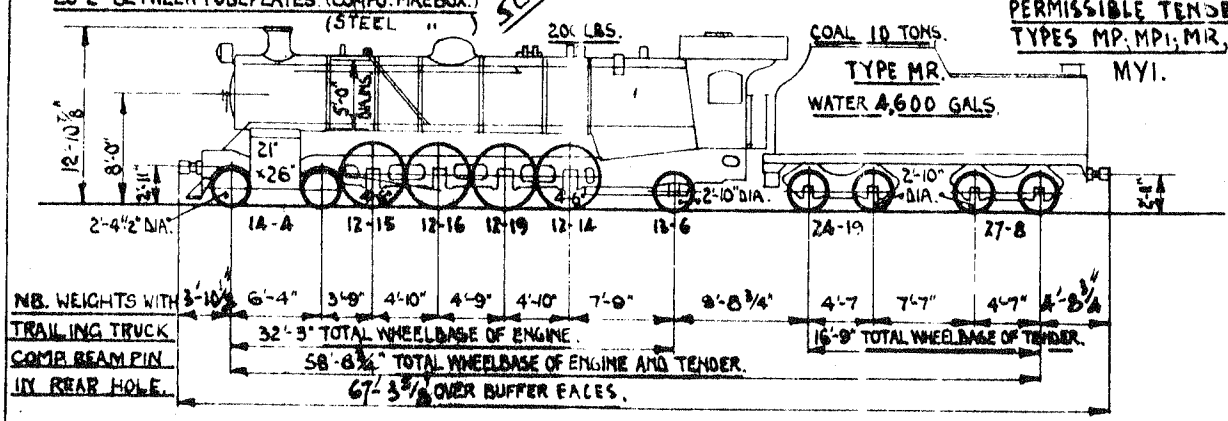
HEATING SURFACE TUBES. 1,700 SQ. FEET.
" " ARCH " 16 " " WHERE FITTED.
" " FIREBOX. 123 " "
" " TOTAL. 1,839 " " WITH ARCH TUBES.
SUPERHEATER AREA. 404 " ".
FIREGRATE AREA. 36 " ".
76 TUBES 2½" EXT. DIA. 24 TUBES 5½" EXT. DIA.
20'-2" BETWEEN TUBEPLATES. (COMPO. FIREBOX.)
(STEEL ")

SCRAPPED

TRACTIVE FORCE (75%) 31,850 LBS.
DATE IN SERVICE:- 1930.
ENGINE Nos. REFER INDEX ITEM 76.

TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR - WALSCHAERT.

PERMISSIBLE TENDERS:-
TYPES MP; MPi; MR, MX, MY, MYI.



NB. WEIGHTS WITH TRAILING TRUCK COMP BEAM PIN IN REAR HOLE.

TOTAL WEIGHT OF ENGINE 78 TONS. 14 CWT. (COPPER F/BOX) TOTAL WEIGHT OF TENDER 52 TONS. 7 CWT. WORKING ORDER.

CLASS 19C.

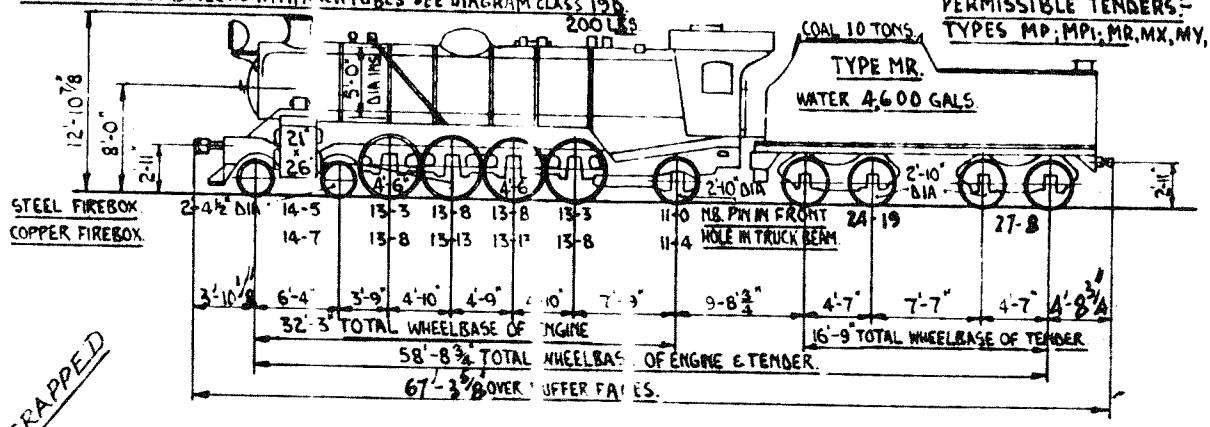
STD. BOILER Nº 1A.

HEATING SURFACE TUBES 1700 SQ. FEET.
" " FIREBOX 123 " "
" " TOTAL 1823 " "
SUPERHEATER AREA 404 " "
FIREGRATE AREA 36 " "
76 TUBES 2½ EXT DIA. 24 TUBES 5½ EXT DIA.
20'-2" (STEEL & COMPO) BETWEEN TUBEPLATES.
FOR DETAILS OF BOILERS WITH ARCH TUBES SEE DIAGRAM CLASS 19D.

TRACTIVE FORCE (75%) 31850 LBS.
DATE IN SERVICE - 1935
ENGINE Nos. REFER INDEX ITEM 172.

TOTAL WEIGHT OF ENGINE EMPTY 160,720 LBS.
VALVE GEAR - R.C. POPPET
DRAWING SERIAL C.E. Nº A 14394

PERMISSIBLE TENDERS:-
TYPES MP; MP1; MR, MX, MY, MY1.



SCRAPPED

TOTAL WEIGHT OF ENGINE 78 TONS 7 CWT (STEEL).
79 " 13 " (COPPER)

TOTAL WEIGHT OF TENDER 52 TONS 7 CWT WORKING ORDER.

CLASS 19D.

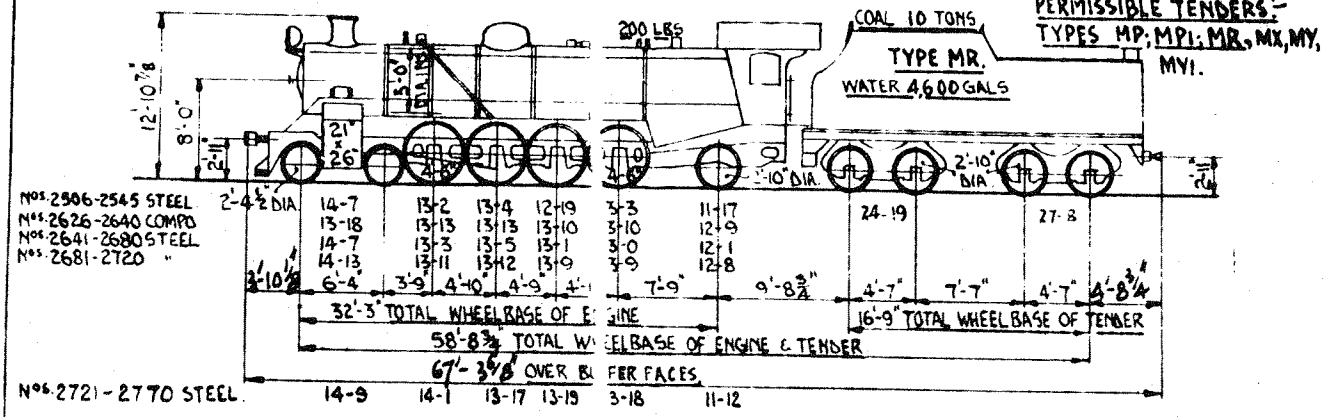
STD BOILER Nº 1A.

HEATING SURFACE TUBES 1700 SQ. FEET.
" " ARCH 16 " "
" " FIREBOX 123 " "
TOTAL 1839 " "
SUPERHEATER AREA 404
FIREGRATE AREA 36
76 TUBES 2½ EXT DIA 24 TUBES 5½ EXT DIA
20'-2" (STEEL & COMPO) BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31850 LBS
DATE IN SERVICE - 1937 - 1939
ENGINE Nos REFER INDEX ITEMS 176 & 184.

TOTAL WEIGHT OF ENGINE EMPTY:-
VALVE GEAR - WALSCHAERT
DRAWING SERIAL C.E. Nos 14705 & 14952.

PERMISSIBLE TENDERS:-
TYPES MP; MP1; MR, MX, MY, MY1.



TOTAL WEIGHT OF ENGINE
Nos 2721-2770 - 81 TONS 16 CWT STEEL F.BOX.
Nos 2506-2545 - 78 TONS 12 CWT STEEL F.BOX.
" 2626-2640 - 80 " 15 " COMPO "
" 2641-2680 - 78 " 17 " STEEL "
" 2681-2720 - 81 " 2 " " "

TOTAL WEIGHT OF TENDER 52 TONS 7 CWT WORKING ORDER

CLASS 20.

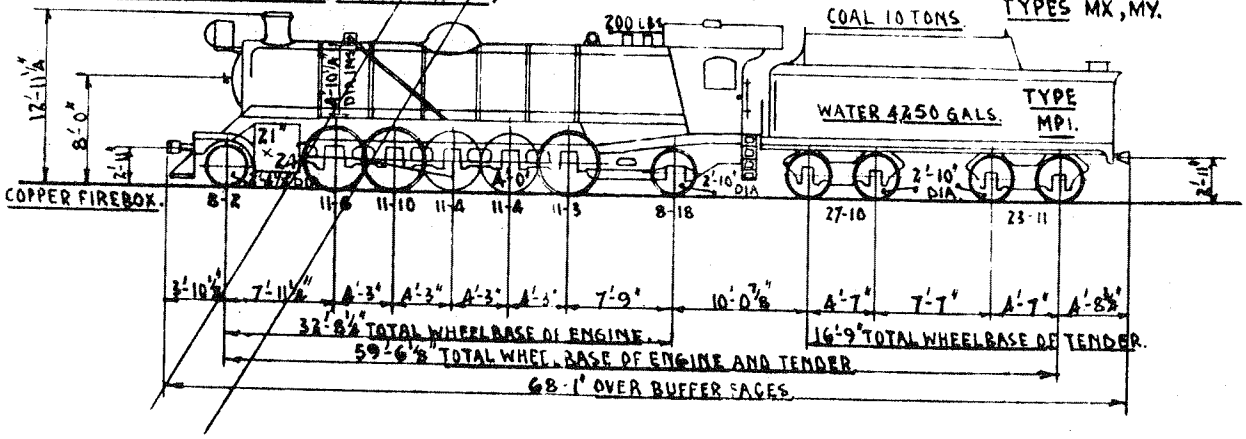
WITH CL. 19A BOILER.

HEATING SURFACE TUBES 1527 SQ. FEET.
" " ARCH 15 " "
" " FIREBOX 125 " "
" " TOTAL 1667 " "
SUPERHEATER AREA 415 " "
FIREGRATE AREA 36 " "
86 TUBES 2¼" EXT. DIA. 18 TUBES 5⅞" EXT. DIA.
20'-0⅜" BETWEEN TUBEPLATES (COMPO. FIREBOX).

SCRAPPED

TRACTIVE FORCE (75%) 33080 LBS.
DATE IN SERVICE - 1935.
ENGINE Nº - 2485. (INDEX ITEM 173)
TOTAL WEIGHT OF ENGINE EMPTY - 143,800 LBS.
VALVE GEAR - R.C. POPPET.

PERMISSIBLE TENDERS:-
TYPES MX, MY.



TOTAL WEIGHT OF ENGINE 74 TONS 7 CWT (COPPER FIREBOX.)

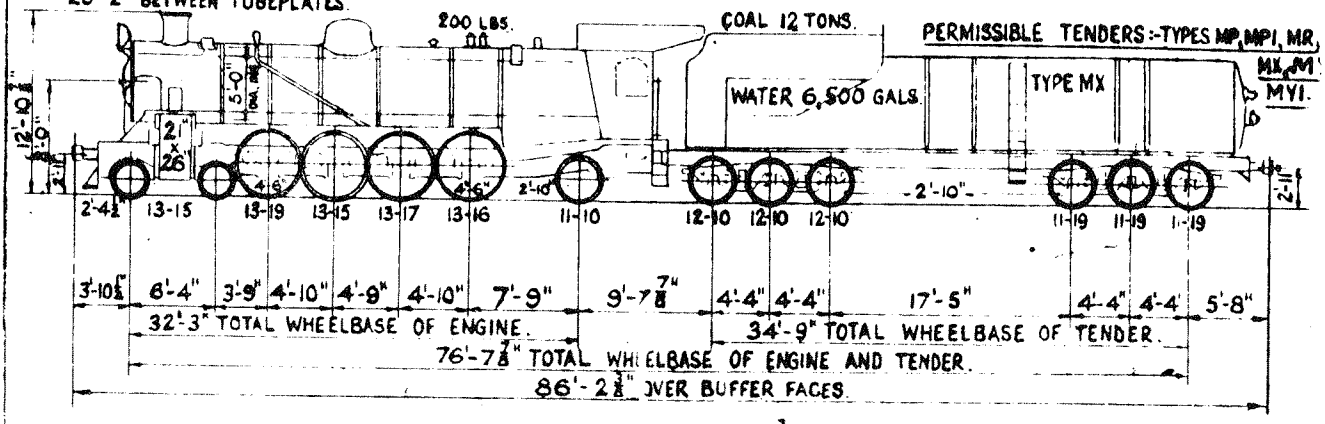
CLASS 19D. 2

STD. BOILER No 1A.

HEATING SURFACE TUBES	1,700 SQ.FT.
" " ARCH "	16 SQ.FT
" " FIREBOX	123 SQ.FT
" " TOTAL	1,839 SQ.FT.
SUPERHEATER AREA	390 SQ.FT.
FIREGRATE AREA	30 SQ.FT.

76 TUBES 2¼" EXT. DIA. 24 TUBES 5½" EXT. DIA.
20'-2" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31,850 LBS.
DATE IN SERVICE:- 1948.
ENGINE Nos. REFER INDEX ITEM 194
TOTAL WEIGHT OF ENGINE EMPTY 164,850 LBS
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL O.E. No A 15790.


200 LBS.
COAL 12 TONS.
WATER 6,500 GALS.
TYPE MX
PERMISSIBLE TENDERS:-TYPES MP, MPI, MR, MX, MI MYI.
2'-10"
2'-10"
2'-4½" 13-15 13-19 13-15 13-17 13-16 11-10 12-10 12-10 12-10 11-19 11-19 1-19
3'-10½" 6'-4" 3'-9" 4'-10" 4'-9" 4'-10" 7'-9" 9'-7⅞" 4'-4" 4'-4" 17'-5" 4'-4" 4'-4 5'-8"
32'-3" TOTAL WHEELBASE OF ENGINE.
34'-9" TOTAL WHEELBASE OF TENDER.
76'-7⅞" TOTAL WHEELBASE OF ENGINE AND TENDER.
86'-2⅜" OVER BUFFER FACES.

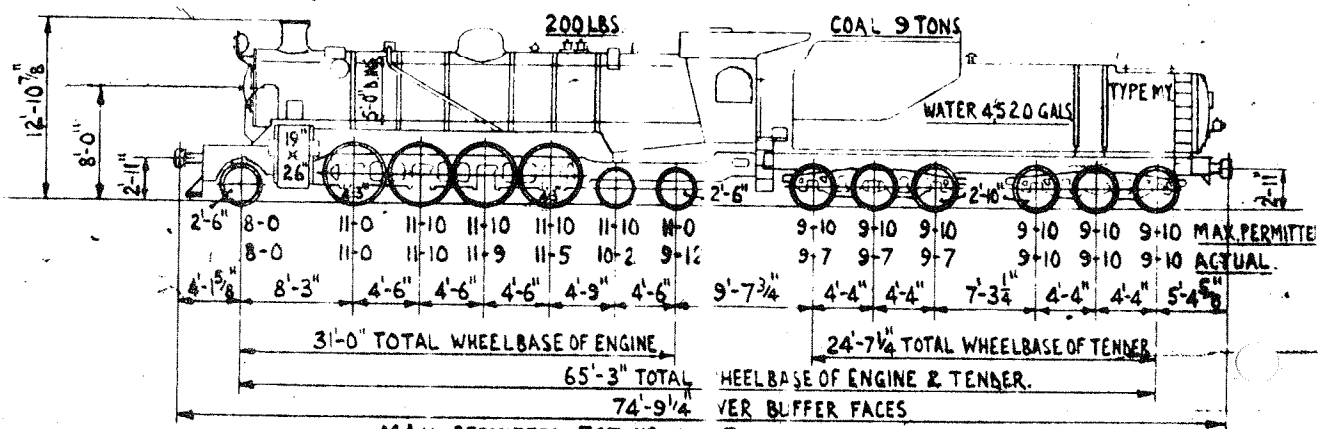
TOTAL WEIGHT OF ENGINE 80 TONS 12 CWT. (STEEL FIREBOX). TOTAL WEIGHT OF TENDER 73 TONS 7 CWT. WORKING ORDER.

CLASS 24. 28

HEATING SURFACE TUBES	1497 SQ.FT.
" " ARCH "	16 " "
" " FIREBOX	123 " "
" " TOTAL	1636 " "
SUPERHEATER AREA	380 " "
FIREGRATE AREA	36 " "

76 TUBES 2⅛ EXT. DIA. 24 TUBES 5½ EXT. DIA.
17'-9" BETWEEN TUBEPLATES.

RACTIVE FORCE (75%) 27,600 LBS.
DATE IN SERVICE 1949.
ENGINE Nos REFER INDEX ITEM 198
TOTAL WEIGHT OF ENGINE EMPTY. 147,000 LBS.
VALVE GEAR: WALSCHAERT.
DRAWING SERIAL C.E. No A 15827.


200 LBS.
COAL 9 TONS
WATER 4,520 GALS.
TYPE MY
2'-6"
2'-10"
2'-6" 8-0 11-0 11-10 11-10 11-10 11-10 11-0 9-10 9-10 9-10 9-10 9-10 9-10 MAX. PERMITTED
8-0 11-0 11-10 11-9 11-5 10-2 9-12 9-7 9-7 9-7 9-10 9-10 9-10 ACTUAL.
4'-1⅝" 8'-3" 4'-6" 4'-6" 4'-6" 4'-3" 4'-6" 9'-7¾" 4'-4" 4'-4" 7'-3¼" 4'-4" 4'-4" 5'-4⅝"
31'-0" TOTAL WHEELBASE OF ENGINE.
24'-7¼" TOTAL WHEELBASE OF TENDER
65'-3" TOTAL HEELBASE OF ENGINE & TENDER.
74'-9¼" VER BUFFER FACES

TOTAL WEIGHT OF ENGINE. MAX. PERMITTED 76 TONS 0 CWT. ACTUAL 72 TONS 18 CWT. TOTAL WEIGHT OF TENDER MAX. PERMITTED 57 TONS. ACTUAL 56 TONS 11 CWT.

CLASS 21.

HEATING SURFACE TUBES	3168 SQ FEET
" " ARCH "	26 " "
" " FIREBOX	206 " "
TOTAL	3400 " "
SUPERHEATER AREA	676 " "
FIREGRATE AREA	63 " "

136 TUBES 2¼" EXT. DIA. 36 TUBES 5½" EXT DIA
22'-6" BETWEEN TUBEPLATES

TRACTIVE FORCE (75%) 43700 LBS
DATE IN SERVICE :- 1937
ENGINE Nos REFER INDEX ITEM 172
TOTAL WEIGHT OF ENGINE EMPTY :- 206916 LBS
VALVE GEAR :- WALSCHAERT
DRAWING SERIAL C.E. No A 14774

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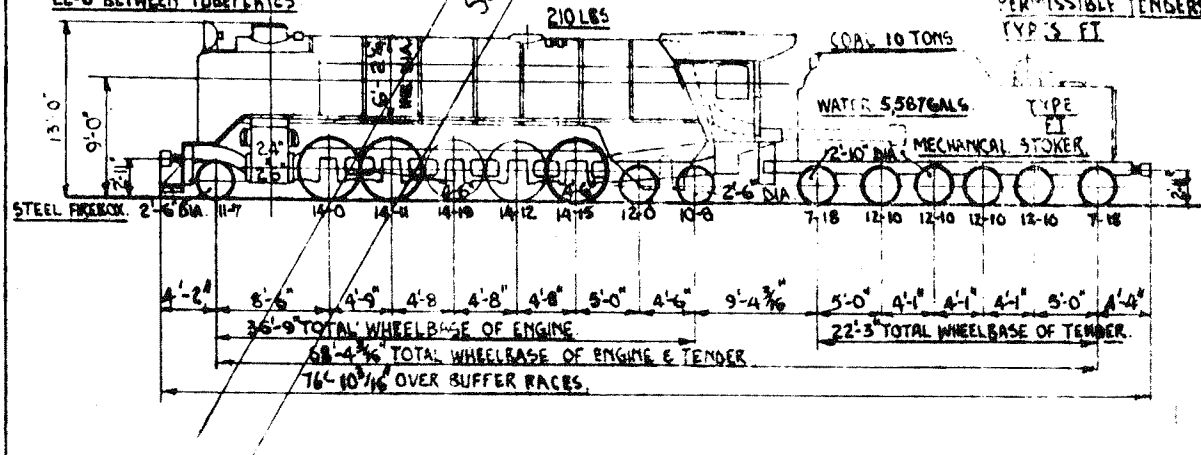
PERMISSIBLE TENDERS :- TYPE 5 FT



TOTAL WEIGHT OF ENGINE 106 TONS 12 CWT TOTAL WEIGHT OF TENDER 65 TONS 16 CWT WORKING ORDER

HEATING SURFACE TUBES	3168 SQ FEET
" " ARCH "	26 " "
" " FIREBOX	206 " "
TOTAL	3400 " "
SUPERHEATER AREA	676 " "
FIREGRATE AREA	63 " "

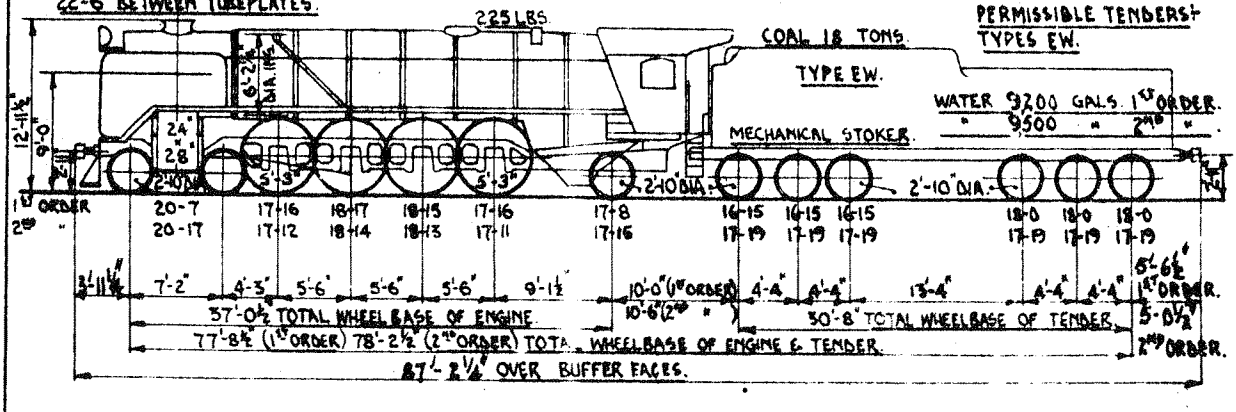
136 TUBES 2¼" EXT DIA. 36 TUBES 5½" EXT DIA.
22'-6" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 43200 LBS.
DATE IN SERVICE :- 1938-39
ENGINE NOS. REFER INDEX ITEMS 180 & 193 STD. BOILER No 38.

CLASS 23.

TOTAL WEIGHT OF ENGINE EMPTY 219,744 LBS.
VALVE GEAR :- WALSCHAERT
DRAWING SERIAL C.E. Nos 14801 & 15003.

PERMISSIBLE TENDERS :- TYPES EW.



TOTAL WEIGHT OF ENGINE 110 TONS 19 CWTS. (1ST ORDER)
" 111 " 2 " (2ND ")

TOTAL WEIGHT OF TENDER 104 TONS 5 CWTS 1ST ORDER
" 107 " 14 " 2ND " WORKING ORDER.

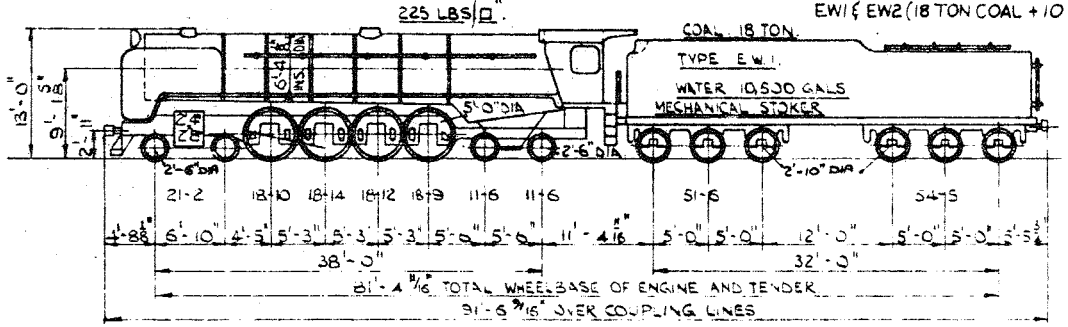
CLASS 25 NC.

HEATING SURFACE	TUBES	3059	SQ FT
" "	FIREBOX	294	" "
" "	CIRCULATORS	37	" "
	TOTAL	3390	" "
SUPERHEATER AREA		630	" "
FIREGRATE AREA		70	" "

158 TUBES 2½" EXT. DIA. 40 TUBES 5½" EXT. DIA. 19'-0" BETWEEN TUBE PLATES.

TRACTIVE FORCE (75%) 45,360 LBS.
DATE IN SERVICE 1953 - 1955.
ENGINE Nos. REFER INDEX ITEM 195
TOTAL WEIGHT OF ENGINE EMPTY 231,400 LBS. TENDER 97,300 LBS.
VALVE GEAR: WALSCHAERT.
DRAWING SERIAL: CE No. A 15881.

PERMISSIBLE TENDERS:-
EW1 & EW2 (18 TON COAL + 10 090 GALS WATER)



TOTAL WEIGHT OF ENGINE 117 TON 9CWT. OF TENDER 105 TON 11 CWT WORKING ORDER

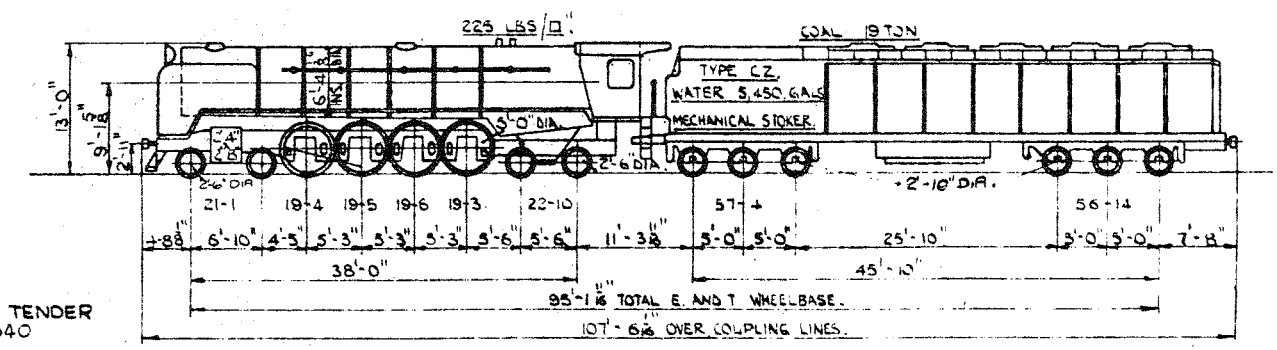
0.5378773
1.8 57270

CLASS 25.

HEATING SURFACE	TUBES	3059	SQ FT
" "	FIREBOX	294	" "
" "	CIRCULATORS	37	" "
	TOTAL	3390	" "
SUPERHEATER AREA		630	" "
FIREGRATE AREA		70	" "

158 TUBES 2½" EXT. DIA. 40 TUBES 5½" EXT. DIA. 19'-0" BETWEEN TUBE PLATES.

TRACTIVE FORCE (75%) 45,360 LBS
DATE IN SERVICE 1953 - 1955
ENGINE Nos. REFER INDEX ITEM 196
TOTAL WEIGHT OF ENGINE EMPTY 241,920 LBS. TENDER 158,339 LBS.
VALVE GEAR WALSCHAERT
DRAWING SERIAL: CE No. A 15882.



TOTAL WEIGHT OF ENGINE 121 TON 1CWT. OF TENDER 118 TON 18CWT WORKING ORDER

ALL CONVERTED TO 25NC WITH EW2 TENDER
EXCEPT LOCOS. Nos. 3451, 3511 & 3540

29A

1-1952 7 Bmm
1 1993/52

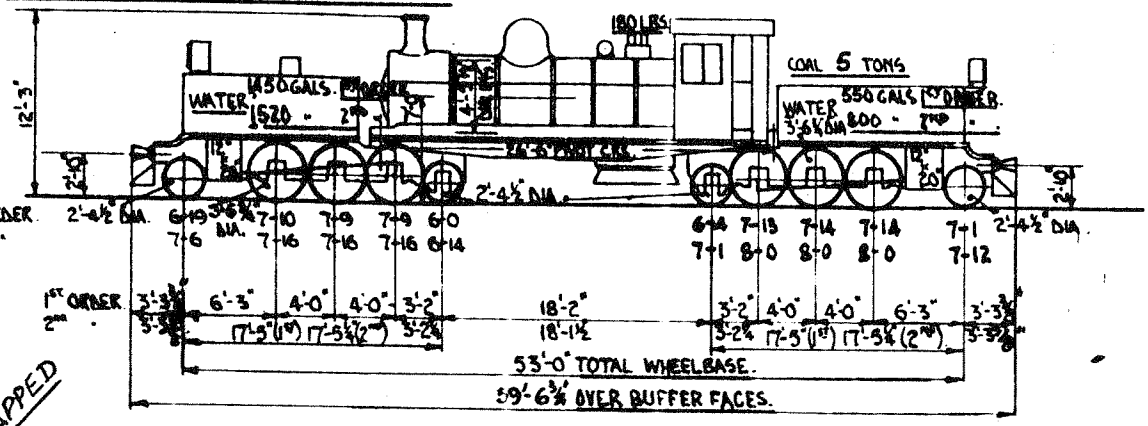
CLASS GB.

HEATING SURFACE TUBES	~~944~~ SQ. FEET	~~944~~ SQ. FEET	904
" " FIREBOX	105 " "	104 " "	
TOTAL	~~1049~~ 1009	~~1048~~ 1008	
SUPERHEATER AREA.	174 " "	203 " "	
FIREGRATE AREA	23 " "	23 " "	
	1ST ORDER	2ND ORDER	

126 ~~138~~ TUBES 1¾" EXT DIA 21 TUBES 5½" EXT DIA (1ST ORDER).
117 ~~119~~ " 1¾" " 21 " 5½" " (2ND ")
10'-4" (1ST ORDER) 10'-4⅝" (2ND ORDER) BETWEEN TUBEPLATES

TRACTIVE FORCE (75%) 18190 LBS.
DATE IN SERVICE - 1921, 1924.
ENGINE Nos REFER INDEX ITEM 138.

TOTAL WEIGHT OF ENGINE EMPTY 127848 LBS.
VALVE GEAR :- WALSCHAERT.
DRAWING SERIAL C.E. Nos 6747 & 11288


180 LBS.
COAL 5 TONS
WATER 1450 GALS. 1ST ORDER
WATER 1520 " 2ND "
WATER 550 GALS 1ST ORDER.
WATER 800 " 2ND "
12'-3"
2'-0"
2'-4½" DIA.
29'-8" PIVOT CRS.
1ST ORDER 2'-4½" DIA. 6-19 7-6 3'-6⅜" DIA. 7-10 7-16 7-9 7-16 7-9 7-16 6-0 6-14
2ND " 7-1 8-0 8-0 8-0 7-12
1ST ORDER 3'-3⅜" 6'-3" 4'-0" 4'-0" 3'-2" 18'-2" 3'-2" 4'-0" 4'-0" 6'-3" 3'-3⅜"
2ND " 3'-3⅜" 17'-5" (1ST) 17'-5½" (2ND) 3'-2¾" 18'-1½" 3'-2¾" 17'-5" (1ST) 17'-5½" (2ND) 3'-3⅜"
53'-0" TOTAL WHEELBASE.
59'-6¾" OVER BUFFER FACES.

SCRAPPED

TOTAL WEIGHT OF ENGINE 71 TONS 13 CWT. (1ST ORDER.)
76 " 1 " (2ND ") WORKING ORDER

CLASS GC.

HEATING SURFACE TUBES	1273 SQ. FEET.
" " FIREBOX	160 " "
TOTAL	1433 " "
SUPERHEATER AREA.	258 " "
FIREGRATE AREA.	34

140 TUBES 2" EXT. DIA. 24 TUBES 5½ EXT. DIA.
11'-3⅝" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 28470 LBS.
DATE IN SERVICE:- 1924-25
ENGINE Nos. REFER INDEX ITEM 141.

TOTAL WEIGHT OF ENGINE EMPTY 159488 LBS.
DRAWING SERIAL C.E. No A. 11389
VALVE GEAR :- WALSCHAERT

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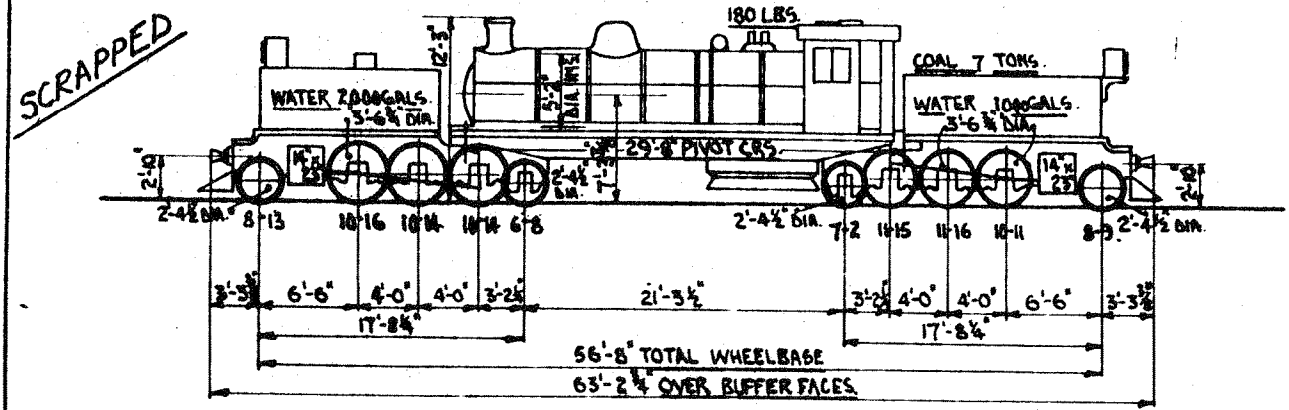

180 LBS.
COAL 7 TONS.
WATER 2000 GALS. 3'-6⅜" DIA.
WATER 1000 GALS. 3'-6⅜" DIA.
29'-8" PIVOT CRS.
2'-4½" DIA.
2'-4½" DIA. 8-13 10-16 10-14 10-14 6-8
2'-4½" DIA. 7-2 11-15 11-16 10-11 8-9 2'-4½" DIA.
3'-3⅜" 6'-6" 4'-0" 4'-0" 3'-2½" 21'-3½" 3'-2½" 4'-0" 4'-0" 6'-6" 3'-3⅜"
17'-8¼" 17'-8¼"
56'-8" TOTAL WHEELBASE
63'-2¾" OVER BUFFER FACES.

TOTAL WEIGHT OF ENGINE 96 TONS 18 CWT WORKING ORDER.

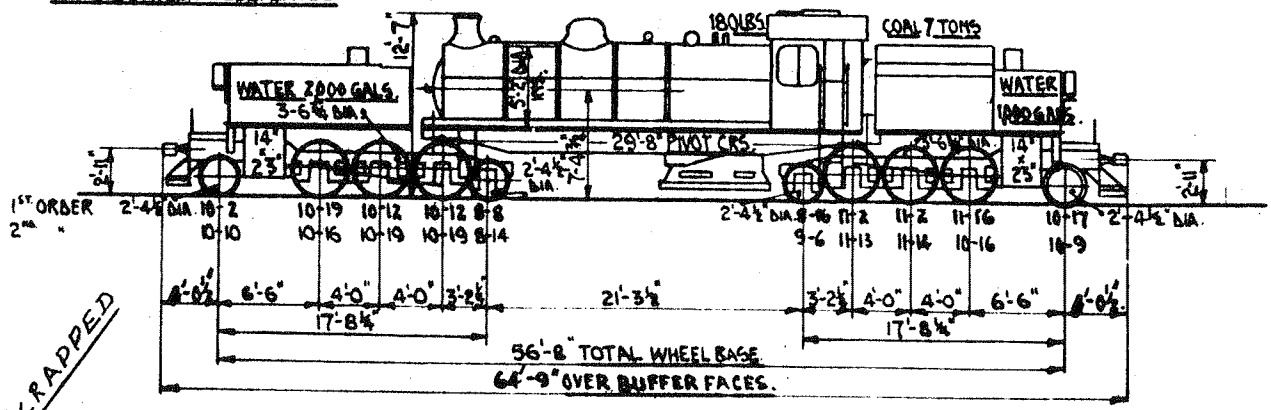
CLASS GCA.

HEATING SURFACE TUBES	1225 SQ. FEET
" " ARCH "	21 " "
" " FIREBOX	142 " "
TOTAL.	1388 " "
SUPERHEATER AREA	231 " "
FIREGRATE AREA	34 " "

141 TUBES 2" DIA. 24 TUBES 5½" EXT. DIA.
11'-3⅝" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 28470 LBS.
DATE IN SERVICE:- 1927-1928.
ENGINE Nos REFER INDEX ITEMS 144 & 183.

TOTAL WEIGHT OF ENGINE EMPTY:- 178556 LBS. 1ST ORDER.
VALVE GEAR:- WALSCHAERT 181888 " 2ND ORDER.
DRAWING SERIAL C.E. Nos A. 12759 & 13155.



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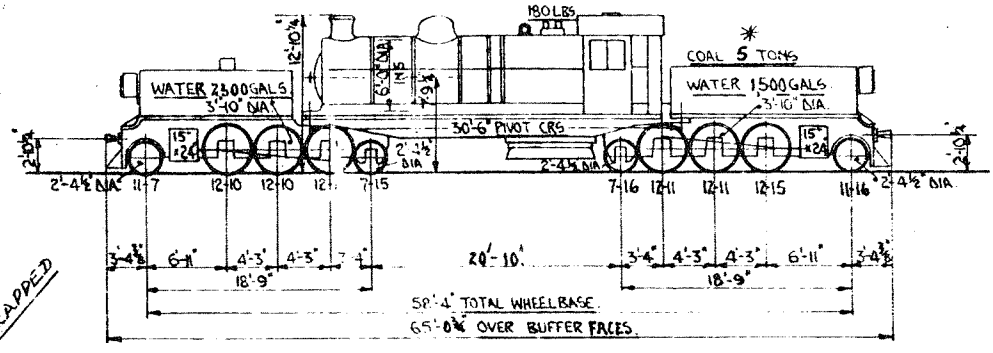
TOTAL WEIGHT OF ENGINE 104 TONS 6 CWT 1ST ORDER.
" " " " 2ND " WORKING ORDER

CLASS GD.

HEATING SURFACE TUBES 1517 SQ.FEET.
" " FIREBOX 172 " "
TOTAL 1689 " "
SUPERHEATER AREA 370 " "
FIREGRATE AREA 40 " "
184 TUBES 2" EXT. DIA. 32 TUBES 5½ EXT. DIA.
10-7⅞ BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31690 LBS.
DATE IN SERVICE - 1925-26
ENGINE Nos REFER INDEX ITEM 147.

TOTAL WEIGHT OF ENGINE EMPTY 198900 LBS.
VALVE GEAR - WALSCHAERT
DRAWING SERIAL C.E. No A 12193



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* ENGINE No 2220 BUNKER CAPACITY INCREASED TO 9 TONS

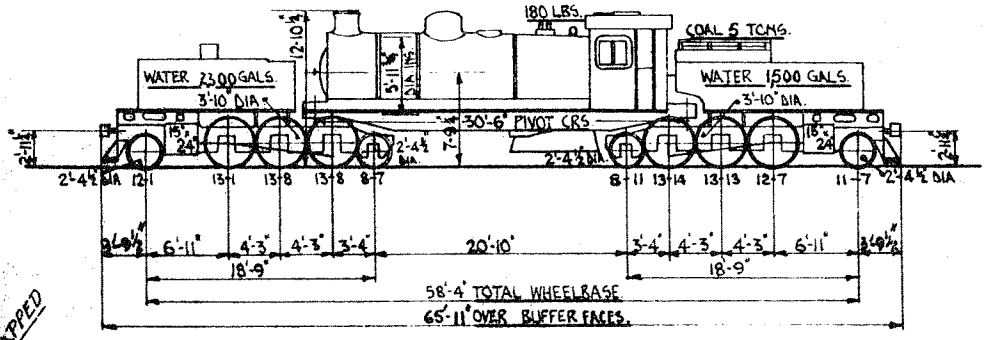
TOTAL WEIGHT OF ENGINE 114 TONS 1 CWT. WORKING ORDER.

CLASS GDA.

HEATING SURFACE TUBES 1569 SQ.FEET.
" " FIREBOX 181 " "
TOTAL 1750 " "
SUPERHEATER AREA 370 " "
FIREGRATE AREA 40 " "
193 TUBES 2" EXT. DIA. 32 TUBES 5½ EXT. DIA.
10-7⅞ BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31690 LBS.
DATE IN SERVICE:- 1929.
ENGINE Nos REFER INDEX ITEM 150.

TOTAL WEIGHT OF ENGINE EMPTY 207,500 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No A. 13224.



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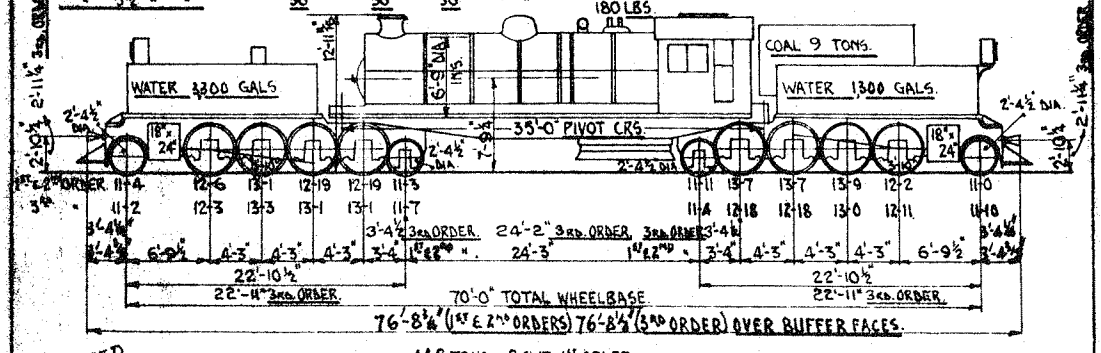
TOTAL WEIGHT OF ENGINE 119 TONS 17 CWT. WORKING ORDER.

CLASS GE.

	1ST ORDER.	2ND ORDER	3RD ORDER	
HEATING SURFACE TUBES	2374	2374	2374	SQ.FT.
" " FIREBOX	215	202	202	" "
" " ARCH TUBES	-	-	27	" "
TOTAL	2589	2576	2603	" "
SUPERHEATER AREA	362	349	364	SQ.FT.
FIREGRATE AREA	52	52	52	" "
TUBES 2" EXT. DIA.	288	288	288	" "
" 5½ " "	36	36	36	" "

◆ TRACTIVE FORCE (75%) 45640 LBS.
DATE IN SERVICE:- 1925, 1927, 1931.
ENG. Nos REFER INDEX ITEM 153.

TOTAL WEIGHT OF ENGINE EMPTY 240,800 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E. Nos A. 11711, 12634 & 13982.
◆ ENG. Nos 2276-2277 (3RD ORDER) - CYLS. 19"×24" T.F. (75%) 50850 LBS



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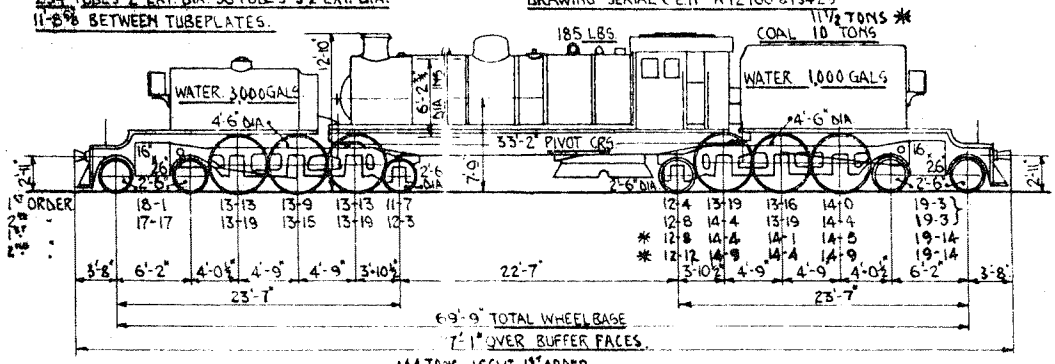
TOTAL WEIGHT OF ENGINE. 148 TONS 8 CWT. 1ST ORDER.
148 " 8 " 2ND "
147 " 18 " 3RD " WORKING ORDER.

CLASS GF

HEATING SURFACE TUBES 2,045 SQ. FEET.
" " ARCH " 23 " "
" " FIREBOX 176 " "
TOTAL 2,242 " "
SUPERHEATER AREA 473 " "
FIREGRATE AREA 44
234 TUBES 2" EXT. DIA. 36 TUBES 5½ EXT. DIA.
11'-8⅝" BETWEEN TUBEPLATES.

SCRAPPED

TRACTIVE FORCE (75%) 34,700 LBS.
DATE IN SERVICE 1927-1928
ENGINE Nos. REFER INDEX ITEM 171.
TOTAL WEIGHT OF ENGINE EMPTY 243,700 LBS. 1ST ORDER.
244,200 " 2ND "
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. Nos. A 12760 & 13429



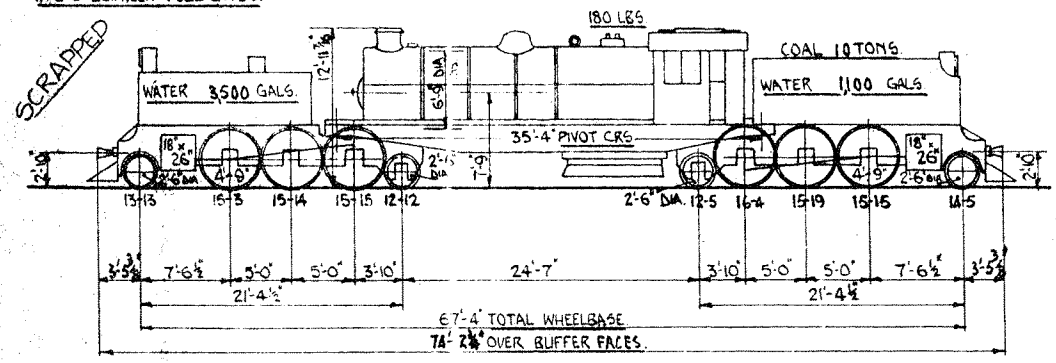
* TOTAL WEIGHT OF ENGINE 144 TONS 15 CWT 1ST ORDER
147 " 1 " 2ND " WORKING ORDER WITH 11½ TONS COAL FOR JOHANNESBURG-MAFEKING SECTION ONLY.

TOTAL WEIGHT OF ENGINE 143 TONS 5 CWT 1ST ORDER. WORKING ORDER
145 " 11 " 2ND "

CLASS GG.

HEATING SURFACE TUBES 2,374 SQ. FEET.
" " FIREBOX 215 " "
TOTAL 2,589 " "
SUPERHEATER AREA 362 " "
FIREGRATE AREA 52 " "
288 TUBES 2" EXT. DIA. 36 TUBES 5½ EXT DIA
11'-8⅝" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 39,900 LBS.
DATE IN SERVICE:- 1925.
ENGINE Nos. REFER INDEX ITEM 156.
TOTAL WEIGHT OF ENGINE EMPTY 235,000 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No. A 11920

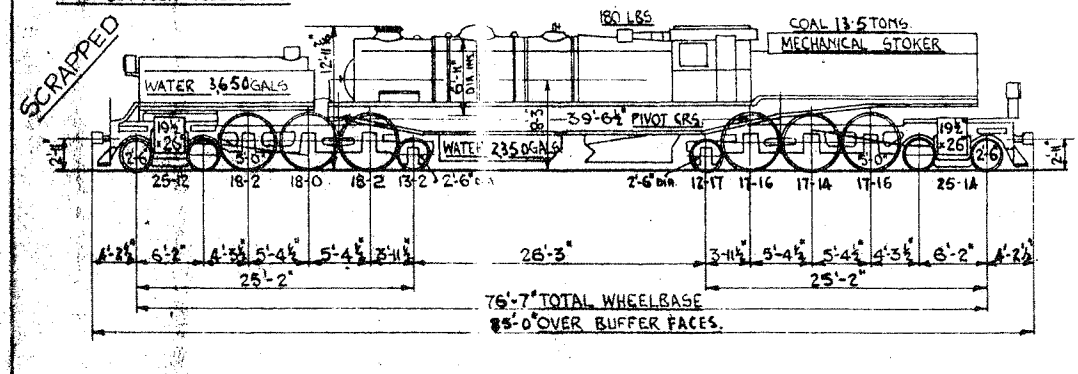


TOTAL WEIGHT OF ENGINE 147 TONS 15 CWT. WORKING ORDER.

CLASS GH.

HEATING SURFACE TUBES 2,416 SQ. FEET.
" " ARCH " 25 " "
" " FIREBOX 214 " "
TOTAL 2,655 " "
SUPERHEATER AREA 665 " "
FIREGRATE AREA 60 " "
195 TUBES 2¼ EXT. DIA. 43 TUBES 5½ EXT DIA
13'-8" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 44,490 LBS.
DATE IN SERVICE:- 1928
ENGINE Nos. REFER INDEX ITEM 162.
TOTAL WEIGHT OF ENGINE EMPTY 304,700 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No. A 12762.

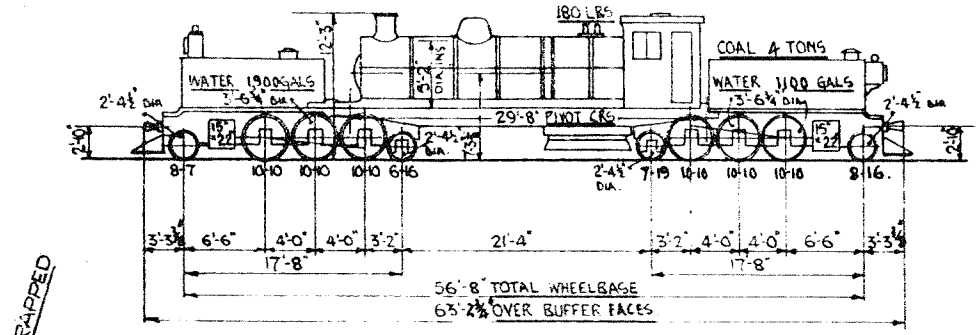


TOTAL WEIGHT OF ENGINE 184 TONS 15 CWT. WORKING ORDER.

CLASS GK

HEATING SURFACE TUBES 1531 SQ.FEET.
" " FIREBOX 156 " ".
" " TOTAL 1687 " ".
SUPERHEATER AREA 300 " ".
FIREGRATE AREA 34 " ".
225 TUBES 1⅝ EXT DIA 24 TUBES 5¼ EXT DIA
11-3¼ BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 31260 LBS.
DATE IN SERVICE:- EX N.C.G.R.
ENGINE Nos REFER INDEX ITEM 165.
TOTAL WEIGHT OF ENGINE EMPTY 162512 LBS.
VALVE GEAR - WALSCHAERT.



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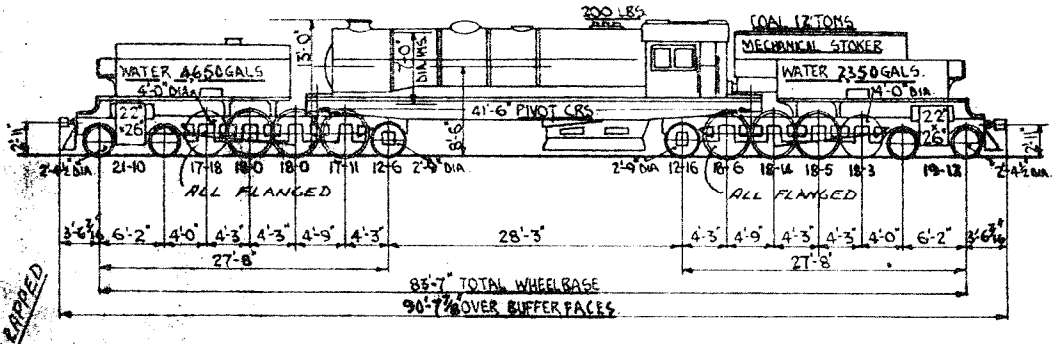
TOTAL WEIGHT OF ENGINE 94 TONS 18 CWT WORKING ORDER

CLASS GL.

HEATING SURFACE TUBES 3,049 SQ.FEET.
HEATING SURFACE FIREBOX (INCLUDING
2 NICHOLSON SYPHONS & 2 ARCH TUBES) 347 " ".
TOTAL 3,396 " ".
SUPERHEATER AREA 835 " ".
FIREGRATE AREA 75 " ".
263 TUBES 2" EXT DIA 50 TUBES 5½ EXT DIA.
14-6½ BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 78650 LBS.
DATE IN SERVICE - 1929.
ENGINE Nos REFER INDEX ITEM 168.
TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR:- WALSCHAERT
DRAWING SERIAL C.E Nos A 13654 & 13887



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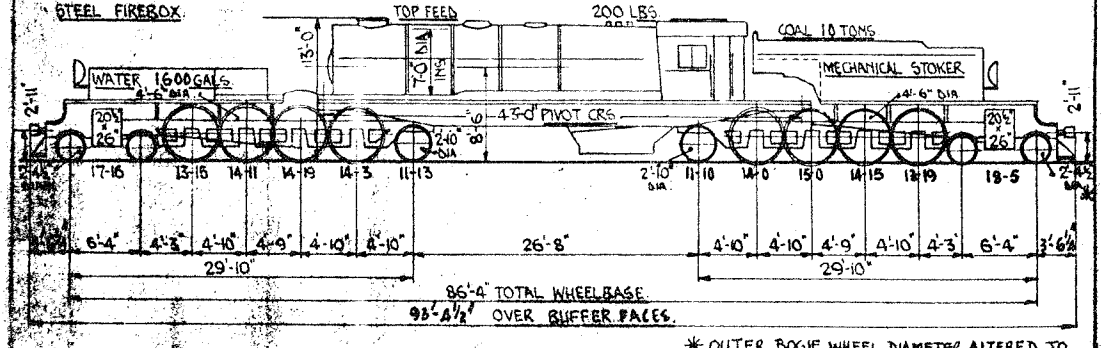
TOTAL WEIGHT OF ENGINE 211 TONS 1 CWT WORKING ORDER.

CLASS GM.

HEATING SURFACE TUBES. 2785 SQ.FEET.
" " FIREBOX } 281 " ".
INCLUDING SYPHONS & ARCH TUBES }
TOTAL 3066 " ".
SUPERHEATER AREA 778 " ".
FIREGRATE AREA 64 " ".
255 TUBES 2" EXT DIA 50 TUBES 5½ EXT DIA
13'-6½ BETWEEN TUBEPLATES.
STEEL FIREBOX.

TRACTIVE FORCE (75%) 60700 LBS.
DATE IN SERVICE - 1938-1939.
ENGINE Nos REFER INDEX ITEM 159.

TOTAL WEIGHT OF ENGINE EMPTY 324800 LBS.
VALVE GEAR - WALSCHAERT.
DRAWING SERIAL C.E Nos A 14872



* OUTER BOGIE WHEEL DIAMETER ALTERED TO 2'-4" LA.11/1/100/20 OF 24-4-68

SCRAPPED

TOTAL WEIGHT OF ENGINE 174 TONS 6 CWT WORKING ORDER.

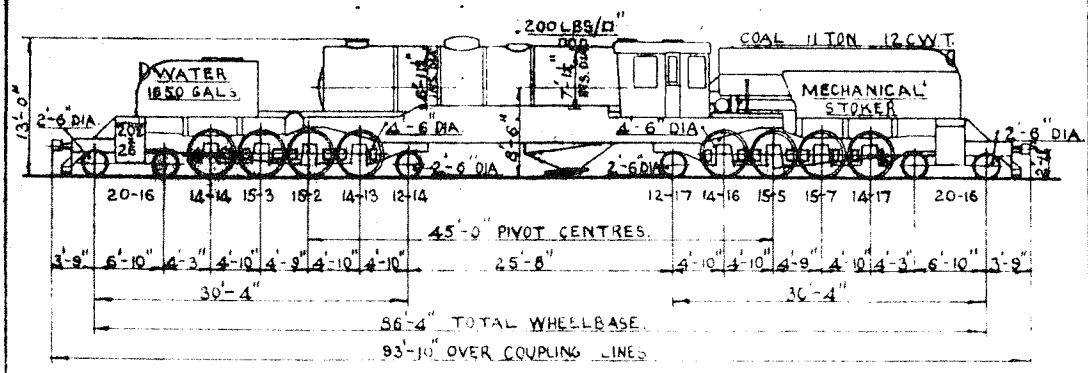
AMENDED L/W/M/6/60

HEATING SURFACE TUBES 2945 ~~2974~~ SQ FT
" " FIREBOX 212 " "
" " ARCH TUBES 25·2 " "
TOTAL ~~3182·2~~ " "
SUPERHEATER AREA ~~636 747~~ " "
FIREGRATE AREA 63·2 " "

TRACTIVE FORCE (75%) 60,700 LBS
DATE IN SERVICE - 1954
ENGINE Nos. REFER INDEX ITEM 202
TOTAL WEIGHT OF ENGINE EMPTY 347,800 LBS.
VALVE GEAR: WALSCHAERT.
DRAWING SERIAL: CE. N°A. 15883.

CLASS-GMA

~~282~~ 278 TUBES 2" EXT. DIA. 50 TUBES 5½ EXT. DIA. 13'-6½ BETWEEN TUBE PLATES.



TOTAL WEIGHT OF ENGINE 187-TON 1-CWT WORKING ORDER

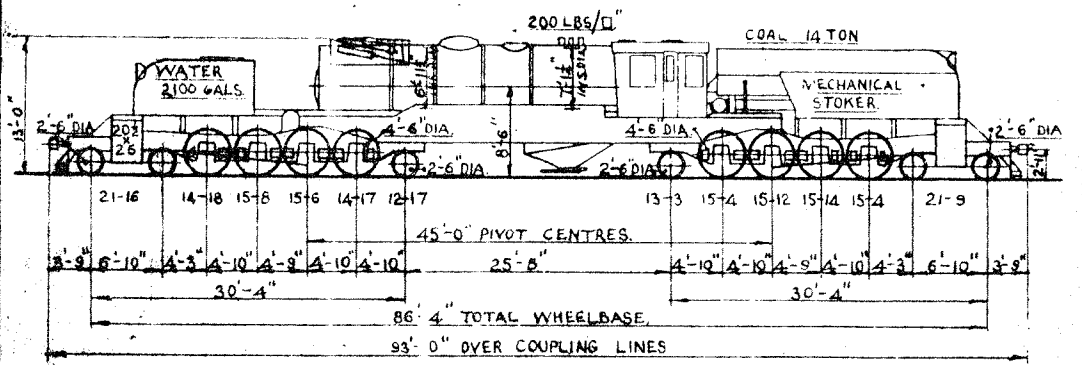
HEATING SURFACE TUBES 2945 ~~2974~~ SQ FT
" " FIREBOX 212 " "
" " ARCH TUBES 25·2 " "
TOTAL ~~3182·2~~ " "
SUPERHEATER AREA ~~636 747~~ " "
FIREGRATE AREA 63·2 " "

TRACTIVE FORCE (75%) 60 700 LBS
DATE IN SERVICE - 1954
ENGINE Nos. REFER INDEX ITEM 201
TOTAL WEIGHT OF ENGINE EMPTY 347,800 LBS
VALVE GEAR: WALSCHAERT
DRAWING SERIAL: CE N°A. 15883

CLASS-GMAM

AMENDED PER L/W/M/6/60

~~282~~ 278 TUBES 2" EXT. DIA. 50 TUBES 5½ EXT DIA 13'-6½ BETWEEN TUBE PLATES



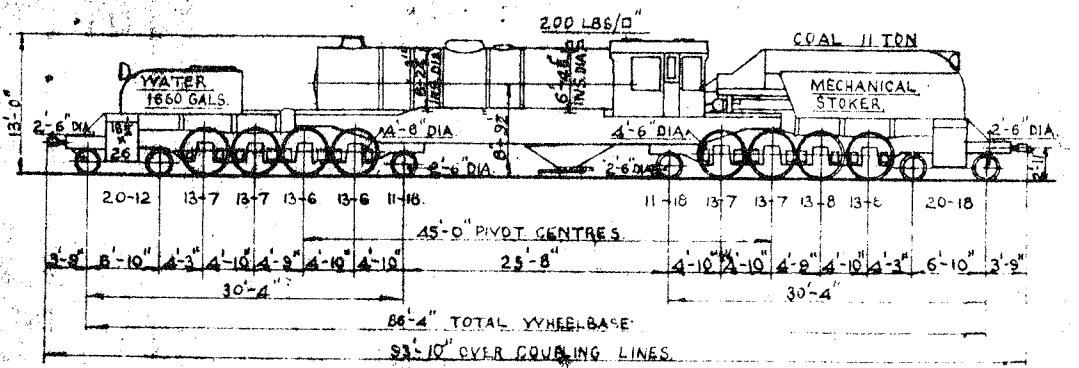
TOTAL WEIGHT OF ENGINE 191 TON 8CWT. WORKING ORDER

HEATING SURFACE TUBES 2395 SQ FT.
" " FIREBOX 200 " "
" " ARCH TUBES 26 " "
TOTAL 2621 " "
SUPERHEATER AREA 546 " "
FIREGRATE AREA 56·6 " "

TRACTIVE FORCE (75%) 49,430 LBS.
DATE IN SERVICE - 1954
ENGINE Nos. : REFER INDEX
TOTAL WEIGHT OF ENGINE EMPTY 326,600 LBS.
VALVE GEAR: WALSCHAERT
DRAWING SERIAL: CE. N°A. 15883.

CLASS-GO

~~241~~ 239 TUBES 2" EXT. DIA. 36 TUBES 5½ EXT. DIA. 13'-6½ BETWEEN TUBE PLATES.

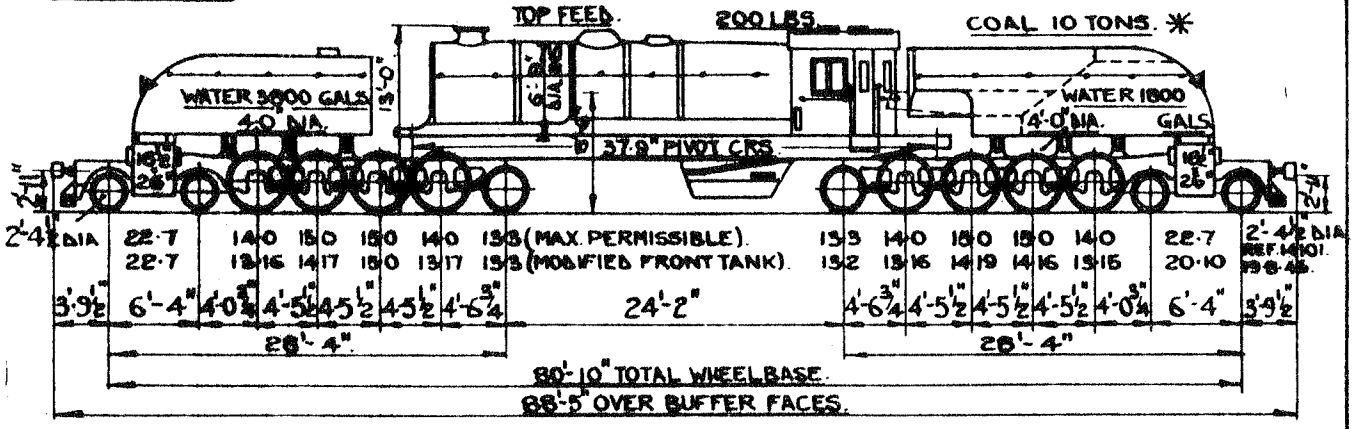


TOTAL WEIGHT OF ENGINE 172 TON 2CWT WORKING ORDER

AMENDED L/W/M/12/61 OF 239 TO 236 OF 2" TUBES, HEATING SURFACE & TOTAL FOR CLASSES GMAM & GO

HEATING SURFACE TUBES 2328 SQ FEET
" ARCH " 27 " "
" FIREBOX 188 " "
" TOTAL 2540 " "
SUPERHEATER AREA 470 " "
FIREGRATE AREA 31·8 " "
882 TUBES 2" EXT. DIA. 36 TUBES 5½" EXT. DIA.
11'-8⅝" BETWEEN TUBEPLATES.
STEEL FIREBOX.

TRACTIVE FORCE (75%) 55620 LBS.
DATE IN SERVICE 1934.
ENGINE Nos REFER INDEX ITEM 600 CLASS GE A.
TOTAL WEIGHT OF ENGINE EMPTY
VALVE GEAR WALSCHAERT
DRAWING SERIAL C.E. N°A.15656.



TOTAL WEIGHT OF ENGINE 187 TONS 0 CWT. (MAX. PERMISSIBLE)
185 TONS 18 CWT. WORKING ORDER.

* ENGINES Nos 4036 & 4049 (CL. GEA/M) COAL CAPACITY INCREASED.
SEE L-13600 GM OF 10-06-52 & 12/1/GM OF 18-09-52.

CLASS U.

HEATING SURFACE TUBES. 2586 SQ. FEET.
" " ARCH " 85 " "
" " FIREBOX 195 " "
TOTAL 2806 " "
SUPERHEATER AREA. 683 " "
FIREGRATE AREA 60 " "
170 TUBES 2¼ EXT DIA 30 TUBES 5½ EXT DIA
18'-0½" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 50,050 LBS.
DATE IN SERVICE:- 1927
ENGINE Nos. REFER INDEX ITEM 73.
TOTAL WEIGHT OF ENGINE EMPTY. 266,786 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No. A.12368.

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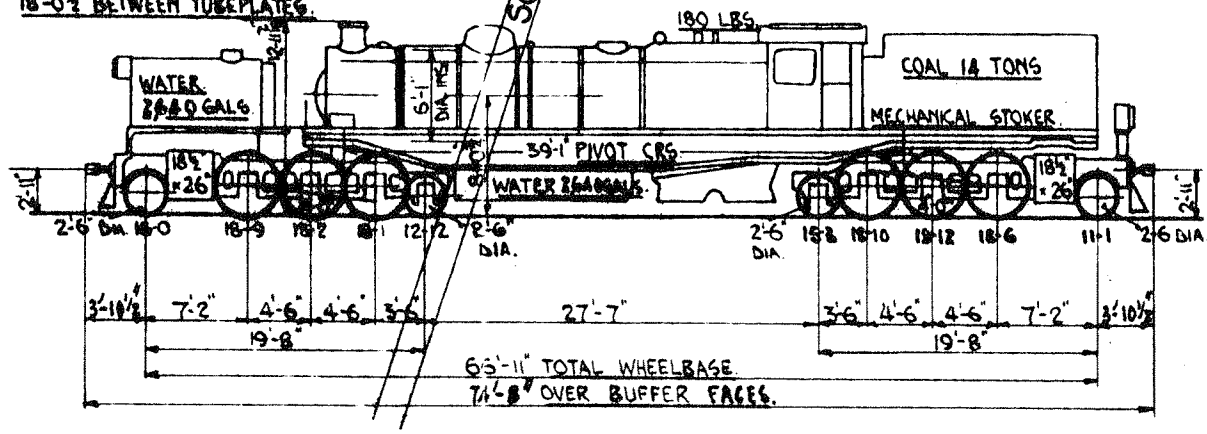


TOTAL WEIGHT OF ENGINE 164 TONS 16 CWT. WORKING ORDER.

CLASS MJ.

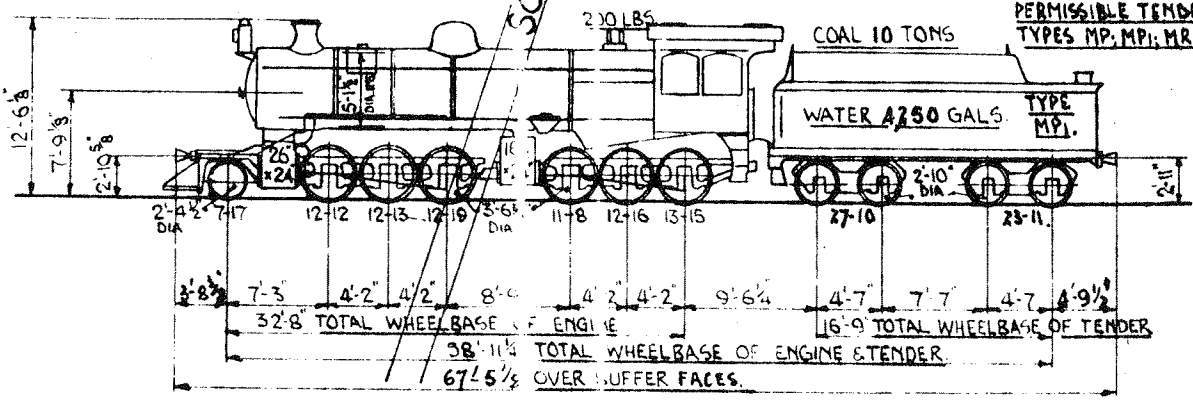
HEATING SURFACE TUBES 1783 SQ. FEET.
" " FIREBOX 130 " "
TOTAL 1,913 " "
SUPERHEATER AREA. 343 " "
FIREGRATE AREA. 40
151 TUBES 2" EXT DIA 18 TUBES 5½ EXT DIA
17'-0" BETWEEN TUBEPLATES

TRACTIVE FORCE (50%) 37,950 LBS.
DATE IN SERVICE:- 1914–1920.
ENGINE Nos. REFER INDEX ITEMS 94 & 98.

TOTAL WEIGHT OF ENGINE EMPTY:- 175,280 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No. A 7148 & 6409.

SCRAPPED

PERMISSIBLE TENDERS:- TYPES MP; MPi; MR.



TOTAL WEIGHT OF ENGINE 84 TONS

TOTAL WEIGHT OF TENDER 51 TONS 1 CWT WORKING ORDER.

CLASS MJ.1

HEATING SURFACE TUBES 1906 SQ. FEET.
FIREBOX 136 SQ. FEET.
TOTAL 2042 " "
SUPERHEATER AREA. 413 " "
FIREGRATE AREA. 40 " "
146 TUBES 2" EXT. DIA. 22 TUBES 5 5/8" EXT. DIA.
17'-0 1/8" BETWEEN TUBEPLATES.

TRACTIVE FORCE (50%) 37950 LBS.
DATE IN SERVICE - 1918
ENGINE Nos. REFER INDEX ITEM 96.

TOTAL WEIGHT OF ENGINE EMPTY. 172,400 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No A 8218

PERMISSIBLE TENDERS:- TYPES LP.

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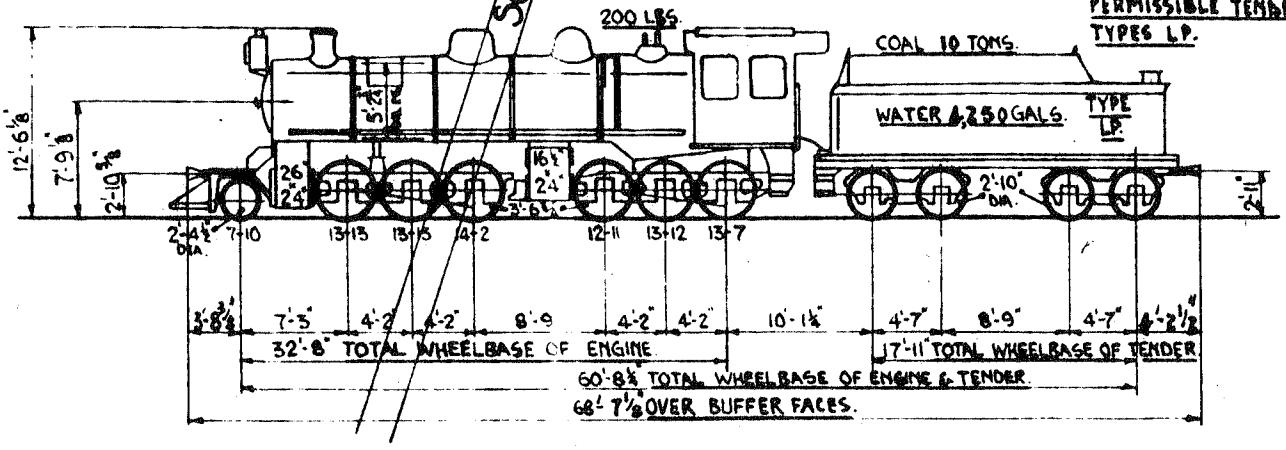


TOTAL WEIGHT OF ENGINE. 88 TONS 10 CWT. TOTAL WEIGHT OF TENDER. 50 TONS 18 CWT. WORKING ORDER.

CLASS MJ & MJ.1.

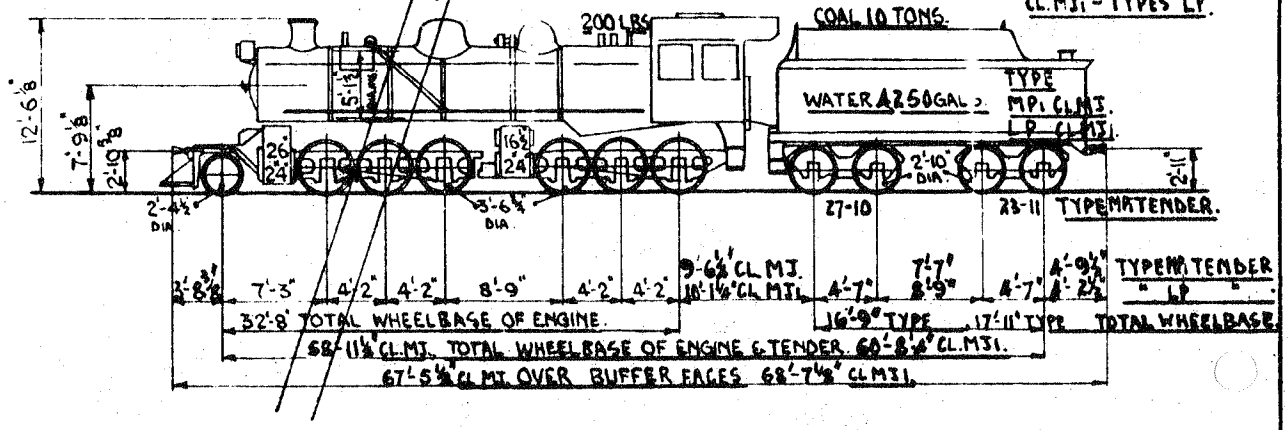
HEATING SURFACE TUBES 1780 SQ. FEET.
FIREBOX. 133 " "
TOTAL 1913 " ".
SUPERHEATER AREA. 850 " ".
FIREGRATE AREA. 40 " ".
151 TUBES 2" EXT. DIA. 18 TUBES 5 1/2 EXT. DIA.
17'-0 1/8" BETWEEN TUBEPLATES

TRACTIVE FORCE (50%) 37,950 LBS.
DATE IN SERVICE:- 1914 - 1920
ENGINE Nos. REFER INDEX ITEM 95 FOR CL MJ.
" " " 97 " MJ1.
TOTAL WEIGHT OF ENGINE EMPTY.
VALVE GEAR:- WALSCHAERT.

REBOILERED.

PERMISSIBLE TENDERS:-
CL. MJ - TYPES MP; MP1; MR.
CL. MJ1 - TYPES LP.

SCRAPPED



TOTAL WEIGHT OF ENGINE TONS CWT. TOTAL WEIGHT OF TENDER 51 TONS 1 CWT. TYPE MP1
50 " 18 " " LP WORKING ORDER.

CLASS S.

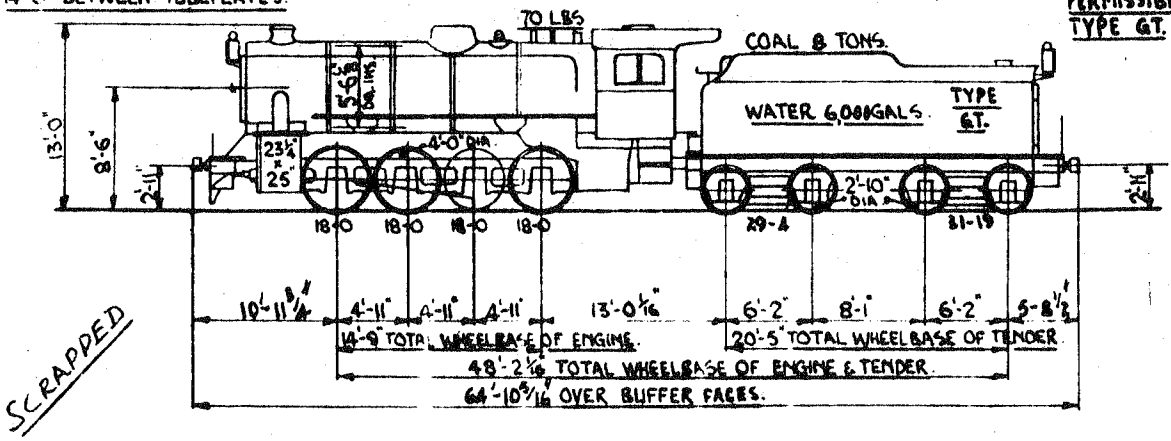
HEATING SURFACE TUBES. 1654 SQ. FEET.
ARCH " 20 " ".
FIREBOX 125 " ".
TOTAL 1,699 " ".
SUPERHEATER AREA 450 " "
FIREGRATE AREA. 41 " "
135 TUBES 2" EXT. DIA. 28 TUBES 5 1/2 EXT. DIA.
14'-0" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) 35,890 LBS.
DATE IN SERVICE:- 1929.
ENGINE NOS. REFER INDEX ITEM 7.

TOTAL WEIGHT OF ENGINE EMPTY. 138,873 LBS.
VALVE GEAR:- WALSCHAERT.
DRAWING SERIAL C.E. No A. 13430.

PERMISSIBLE TENDERS:- TYPE GT.

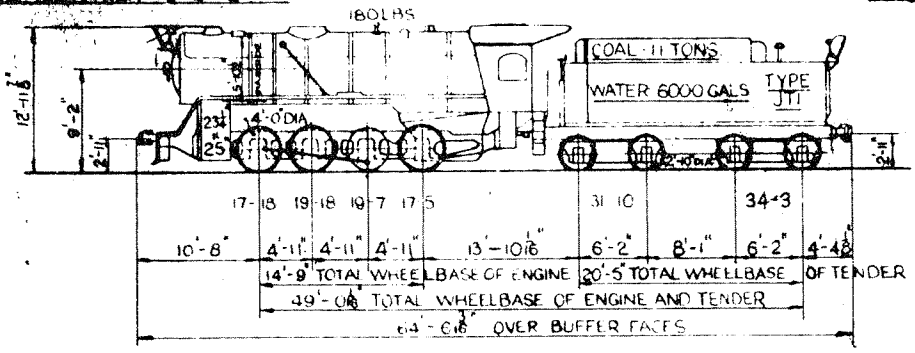
SCRAPPED



CLASS S1

HEATING SURFACE TUBES 1600 SQ FEET
" " ARCH 12 "
" " FIREBOX 188 "
" " TOTAL 1820 "
SUPERHEATER AREA 428 " "
FIREGRATE AREA 42 " "
151 TUBES 2" EXT DIA 30 TUBES 5½ EXT DIA
13'-2⅛" BETWEEN TUBE PLATES

TRACTIVE FORCE (75%) 38,000 LBS.
DATE IN SERVICE 194-
ENGINE Nos REFER INDEX ITEM 7A, 199A
TOTAL WEIGHT OF ENGINE EMPTY 149240 LBS
VALVE GEAR :- WALSCHAERT
DRG SERIAL Nos L-9999 L-10000 L-10001.
PERMISSIBLE TENDERS TYPE 2U

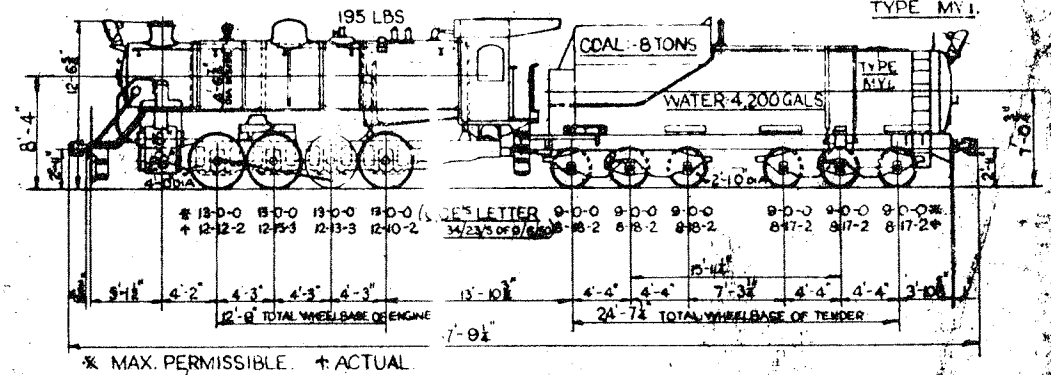


TOTAL WEIGHT OF ENGINE 74 TONS 8 CWT
TOTAL WEIGHT OF TENDER 65 TONS 13 CWT. WORKING ORDER

CLASS S2

HEATING SURFACE TUBES 979 SQ FEET
" " FIREBOX 113 " "
" " TOTAL 1092 " "
SUPERHEATER AREA 330 " "
FIREGRATE AREA 30 " "
91 TUBES 2" EXT DIA 30 TUBES 5½ EXT DIA
13'-3⅜" BETWEEN TUBE PLATES

TRACTIVE FORCE (75%) 25,600 LBS.
DATE IN SERVICE 1952 - 953
ENGINE Nos REFER INDEX ITEM 199
TOTAL WEIGHT OF ENGINE EMPTY 105,764 LBS.
VALVE GEAR :- WALSCHAERT
DRG SERIAL Nos C.E. No A 15837.
PERMISSIBLE TENDERS TYPE MY1.



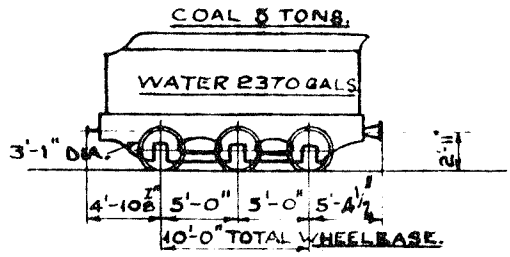
* MAX. PERMISSIBLE † ACTUAL

TOTAL WEIGHT OF ENGINE 50 TONS 12 CWT. 2 QRS. TOTAL WEIGHT OF TENDER 53 TONS 8 CWT. WORKING ORDER

INDEX ITEM 265. **TYPE ZB.**

DATE IN SERVICE 1892-1893

WEIGHT OF TENDER EMPTY 31,560 LBS.

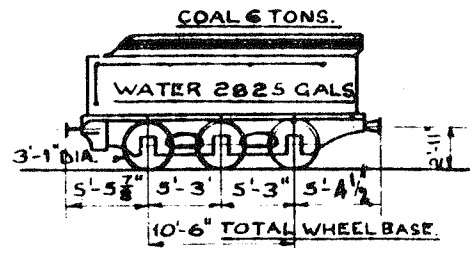


TOTAL WEIGHT OF TENDER 29 TONS 1 CWT. WORKING ORDER.

INDEX ITEM 267. **TYPE YE1.**

DATE IN SERVICE 1904

WEIGHT OF TENDER EMPTY 34,470 LBS.

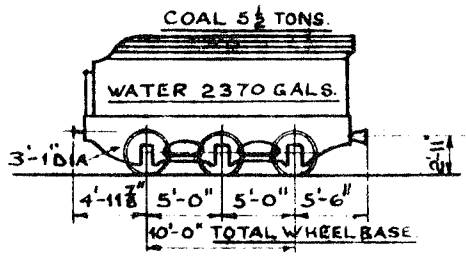


TOTAL WEIGHT OF TENDER 34 TONS WORKING ORDER.

INDEX ITEM 257. **TYPE YB.**

DATE IN SERVICE 1893-1894.

WEIGHT OF TENDER EMPTY 31,560 LBS.



TOTAL WEIGHT OF TENDER 29 TONS 11 CWT. WORKING ORDER.

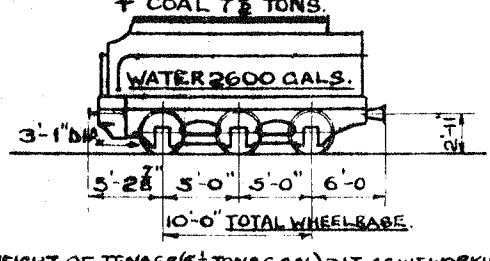
INDEX ITEMS 258 & 261. **TYPE YC.**

DATE IN SERVICE 1896 1898.

WEIGHT OF TENDER EMPTY 33,056 LBS.

+ WITH NEW TANK TO DRG. No L-4423.

CAPACITY WITH ORIGINAL TANK;
5½ TONS COAL, WATER 2590 GALS.

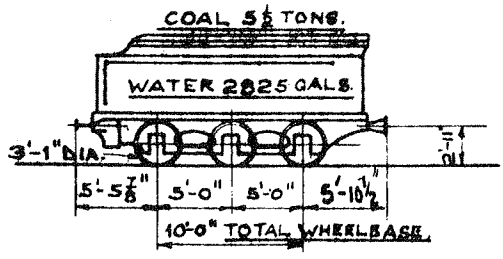


TOTAL WEIGHT OF TENDER (5½ TONS COAL) 31T. 4 CWT. WORKING ORDER
" " " " (7½ TONS COAL) 33T. 4 CWT. " "

INDEX ITEM 266. **TYPE YE.**

DATE IN SERVICE 1901, 1903.

WEIGHT OF TENDER EMPTY 33,164 LBS.

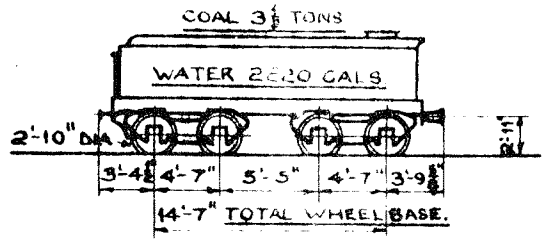


TOTAL WEIGHT OF TENDER 32 TONS 1 CWT. WORKING ORDER

INDEX ITEM 286. **TYPE ZA.**

DATE IN SERVICE 1892 - 1893.

WEIGHT OF TENDER EMPTY ____ LBS.

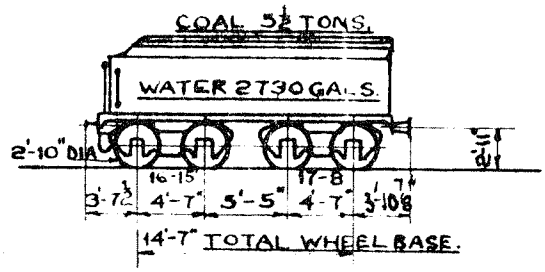


TOTAL WEIGHT OF TENDER ____ TONS ____ CWT. WORKING ORDER.

INDEX ITEM 264. **TYPE XD.**

DATE IN SERVICE 1901. 1902.

WEIGHT OF TENDER EMPTY 36,876 LBS.

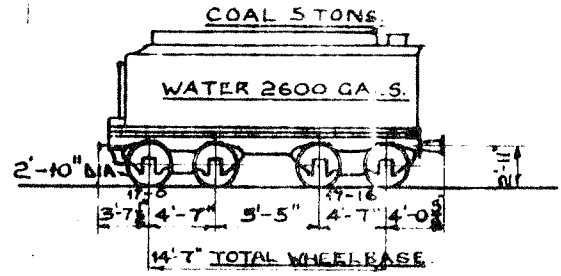


TOTAL WEIGHT OF TENDER 34 TONS 3 CWT. WORKING ORDER.

INDEX ITEM 272. **TYPE XC.**

DATE IN SERVICE 1910-1911

WEIGHT OF TENDER EMPTY 38,960 LBS.



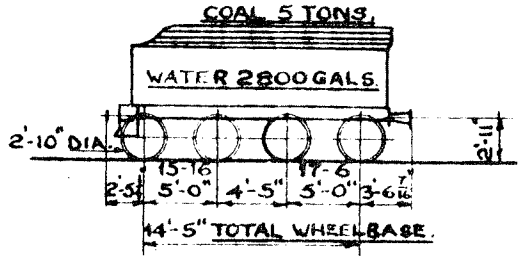
TOTAL WEIGHT OF TENDER 34 TONS 16 CWT. WORKING ORDER.

INDEX ITEM 263. **TYPE WE.**

DATE IN SERVICE 1901.

WEIGHT OF TENDER EMPTY 34,944 LBS.

ENGINE DRAWBAR & SAFETY CHAINS TO SUIT WHEN COUPLED TO CLASS 8X ENGINES.

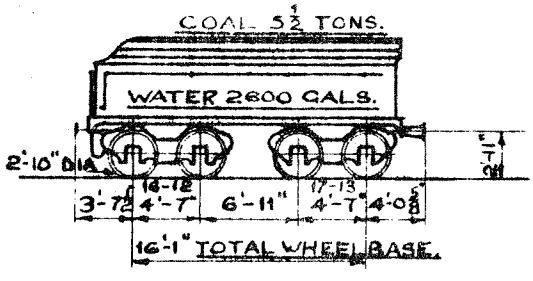


TOTAL WEIGHT OF TENDER 33 TONS 2 CWT. WORKING ORDER.

INDEX ITEMS 259 & 262. **TYPE XC1.**

DATE IN SERVICE 1897-1898

WEIGHT OF TENDER EMPTY 38,400 LBS.

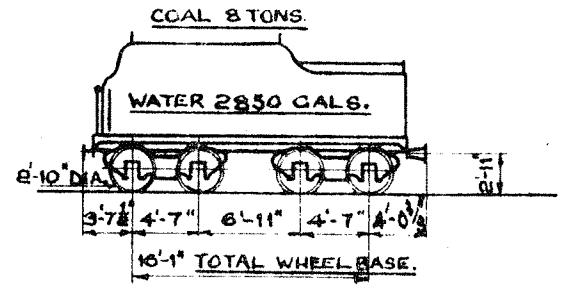


TOTAL WEIGHT OF TENDER 34 TONS 5 CWT. WORKING ORDER.

TYPE ZE.

DATE IN SERVICE 1896-1902.

WEIGHT OF TENDER EMPTY ____ LBS.



TOTAL WEIGHT OF TENDER ____ TONS ____ CWT. WORKING ORDER.

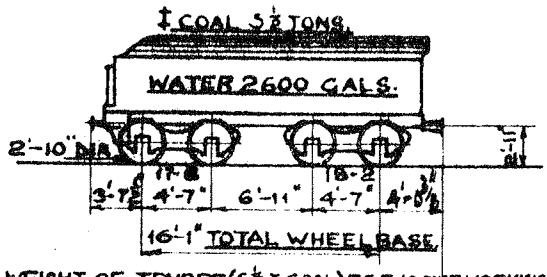
INDEX ITEMS 284, 287 & 296. **TYPE ZC.**

DATE IN SERVICE 1896-1902.

WEIGHT OF TENDER EMPTY 38,960 LBS.

‡ TENDER Nos 1344-50, 1357-59.

COAL CAPACITY 6½ TONS.

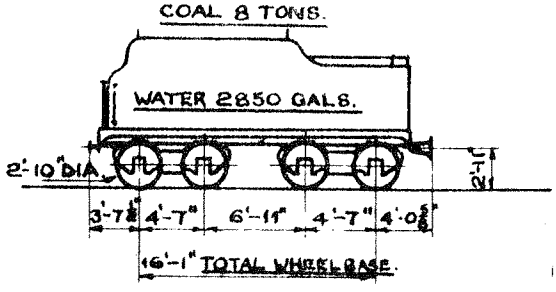


TOTAL WEIGHT OF TENDER (6½ T. COAL) 35 T. 10 CWT. WORKING ORDER
" " " " (5½ T. COAL) 34 T. 2 CWT. " "

INDEX ITEM 260. **TYPE XE.**

DATE IN SERVICE 1897 - 1898

WEIGHT OF TENDER EMPTY ____ LBS.



TOTAL WEIGHT OF TENDER ____ TONS ____ CWT. WORKING ORDER.

TYPE XE1.

INDEX ITEMS 286, 288 & 290.

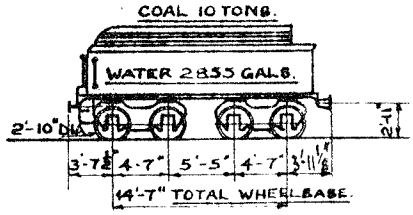
DATE IN SERVICE 1902-1904

WEIGHT OF TENDER EMPTY 42,234 LBS.

TENDER Nos 806-9 COAL CAPACITY 9 TONS.

TENDER Nos 910-11 COAL CAPACITY 6 TONS.

* TENDER No 552



* ADDED. REF L-18/1/100/16 OF 29/3/56 W.R.S.

TOTAL WEIGHT OF TENDER 41 TONS 12 CWT. WORKING ORDER

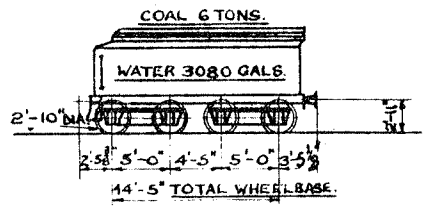
TYPE WG.

INDEX ITEM 279.

DATE IN SERVICE 1901-1902.

WEIGHT OF TENDER EMPTY 38,080 LBS.

ENGINE DRAWBAR & SAFETY CHAINS TO SUIT WHEN COUPLED TO CLASS GG ENGINES.



TOTAL WEIGHT OF TENDER 36 TONS 15 CWT. WORKING ORDER.

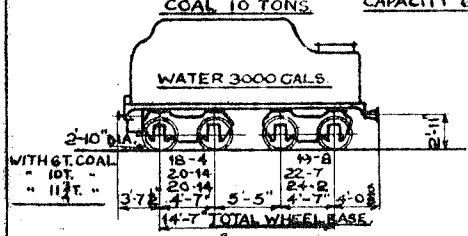
TYPE XF.

INDEX ITEMS 281, 289, 291, 311.

DATE IN SERVICE 1901-1912.

WEIGHT OF TENDER EMPTY 44,032 LBS.

SEE DRG. No E.L. 1823 FOR INCREASE IN COAL CAPACITY TO 11¾ TONS. TENDER No 1618 COAL CAPACITY 6 TONS.



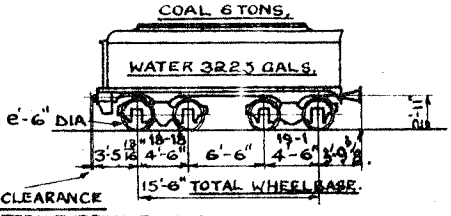
TOTAL WEIGHT OF TENDER (11¾ TONS COAL) 44 T. 16 CWT. WORKING ORDER.
" " " " (10 " ") 43 T. 1 CWT. " "
" " " " (6 " ") 37 T. 12 CWT. " "

TYPE SH.

INDEX ITEMS 270, 293 & 299.

DATE IN SERVICE 1904-1905

WEIGHT OF TENDER EMPTY 39,318 LBS.



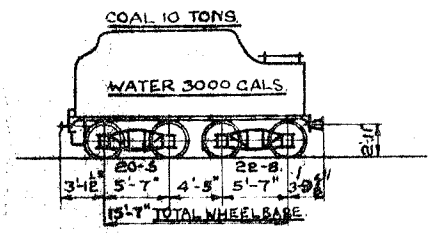
TOTAL WEIGHT OF TENDER 37 TONS 19 CWT. WORKING ORDER

TYPE XF1

INDEX ITEM 282.

DATE IN SERVICE

WEIGHT OF TENDER EMPTY 43,136 LBS.



TOTAL WEIGHT OF TENDER 42 TONS 13 CWT. WORKING ORDER.

TYPE TJ.

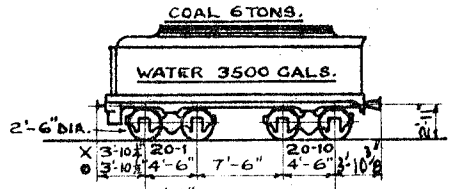
INDEX ITEMS 271, 294 & 300.

DATE IN SERVICE 1909-1910.

WEIGHT OF TENDER EMPTY 42,392 LBS.

TENDER SERIES Nos 1289-1309 & 765-6 LENGTH OF DRAWBAR TO SUIT.

TENDER SERIES Nos 1446-1450 LENGTH OF DRAWBAR TO SUIT WHEN COUPLED TO CLASS 1A ENGINES.



X FOR TENDER SERIES Nos 1289-1309 & 765-766.
⊙ " " " " 1446-1450.

TOTAL WEIGHT OF TENDER 40 TONS 11 CWT. WORKING ORDER.

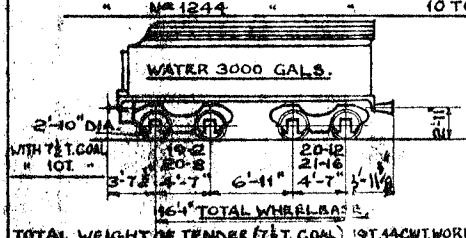
TYPE XF2

INDEX ITEMS 283 & 292.

DATE IN SERVICE 1906.

WEIGHT OF TENDER EMPTY 42,128 LBS.

TENDER No 948 COAL CAPACITY 7½ TONS.
" No 1244 " " 10 TONS.



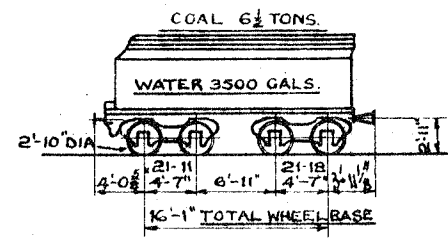
TOTAL WEIGHT OF TENDER (7½ T. COAL) 19T. 14 CWT. WORKING ORDER
" " " " (10T. ") 21T. 4 " " "

TYPE XJ.

INDEX ITEM 303.

DATE IN SERVICE 1911.

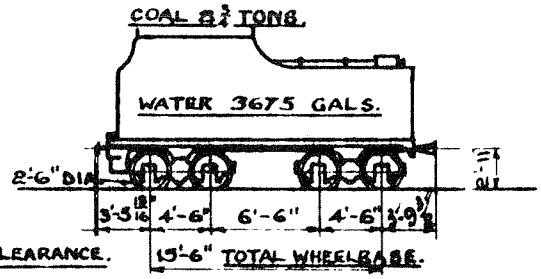
WEIGHT OF TENDER EMPTY 47,768 LBS.



TOTAL WEIGHT OF TENDER 43 TONS 9 CWT. WORKING ORDER

TYPE SK.

DATE IN SERVICE 1904-1905.
WEIGHT OF TENDER EMPTY LBS.

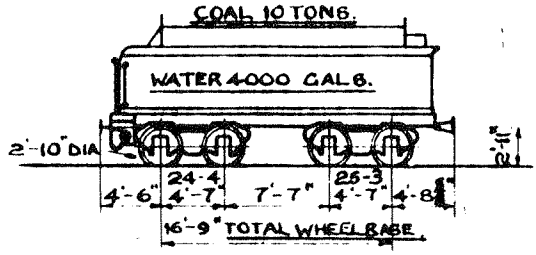


½" CLEARANCE BETWEEN RUBBING BLOCKS.

TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER

TYPE XM2

INDEX ITEMS 251 269 273 & 282
DATE IN SERVICE 1904-1919
WEIGHT OF TENDER EMPTY 48,144 LBS.

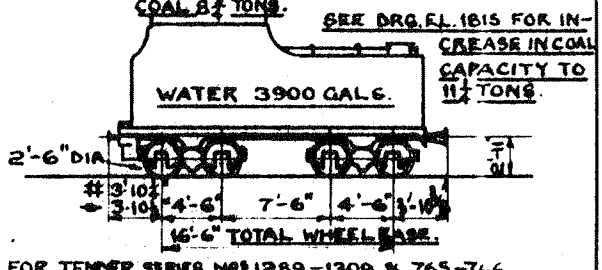


TOTAL WEIGHT OF TENDER 49 TONS 7 CWT. WORKING ORDER.

TYPE TL.

INDEX ITEM 302.
DATE IN SERVICE 1909-1912
WEIGHT OF TENDER EMPTY LBS.

TENDER SERIES Nos 1289-1309 & 765-766 LENGTH OF DRAWBAR TO SUIT.
TENDER SERIES Nos 1446-75 & 1479-88 LENGTH OF DRAWBAR TO SUIT WHEN COUPLED TO CLASS 1A ENGINES.

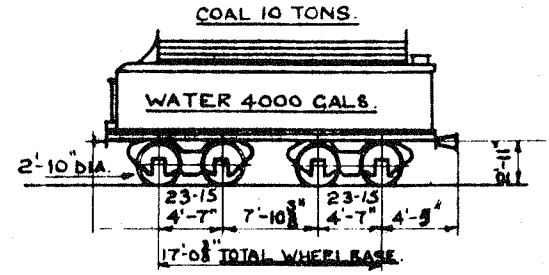


FOR TENDER SERIES Nos 1289-1309 & 765-766.
" " " " " 1446-1475 & 1479-1488.

TOTAL WEIGHT OF TENDER TONS CWT. WORKING ORDER.

TYPE XM3

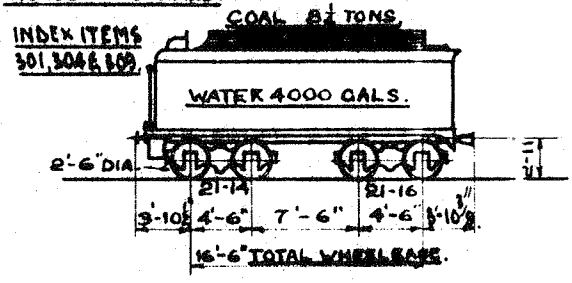
INDEX ITEM 268.
DATE IN SERVICE 1904.
WEIGHT OF TENDER EMPTY 44,000 LBS.



TOTAL WEIGHT OF TENDER 47 TONS 10 CWT. WORKING ORDER.

TYPE TM.

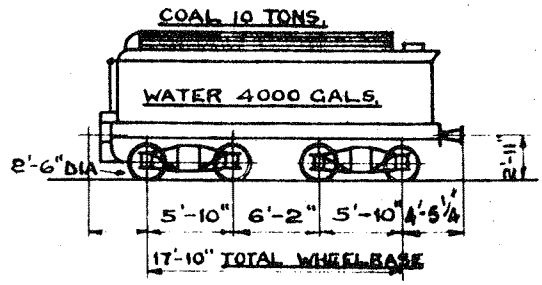
TENDER Nos 1615 CLASSIFIED TYPE XM1. (ITEM 310)
" " 1617 " " " " " "
DATE IN SERVICE 1909-1912
WEIGHT OF TENDER EMPTY 38,960 LBS.
LENGTH OF ENG. DRAWBAR TO BE 6'-9¾" WHEN TENDERS SERIES Nos 1607-10 & 1612-16 ARE COUPLED TO ENG. CLS 3 & 9E.
ENG. DRAWBAR TO SUIT WHEN TENDERS ARE COUPLED TO CLASS 1A ENGINES.



TOTAL WEIGHT OF TENDER 43 TONS 10 CWT. WORKING ORDER.

TYPE XM4

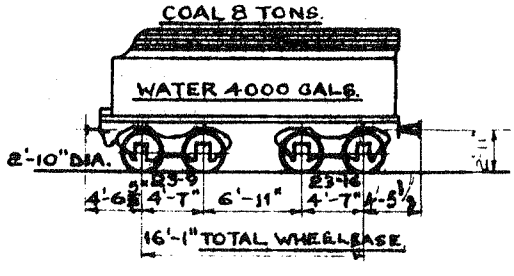
INDEX ITEM 313.
DATE IN SERVICE 1911
WEIGHT OF TENDER EMPTY 51,840 LBS.



TOTAL WEIGHT OF TENDER 51 TONS 0 CWT. WORKING ORDER

TYPE XM

INDEX ITEM 307.
DATE IN SERVICE 1913-1914.
WEIGHT OF TENDER EMPTY 47,920 LBS.

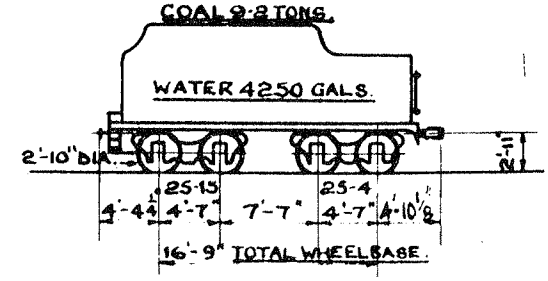


TOTAL WEIGHT OF TENDER 47 TONS 5 CWT. WORKING ORDER.

TYPE MP.

INDEX ITEM 265.
DATE IN SERVICE 1929.
WEIGHT OF TENDER EMPTY 51,020. LBS.

ENGINE DRAWBAR TO SUIT CLASS OF ENGINE TO WHICH TENDERS ARE COUPLED.



TOTAL WEIGHT OF TENDER 50 TONS 19 CWT. WORKING ORDER.

TYPE MP.

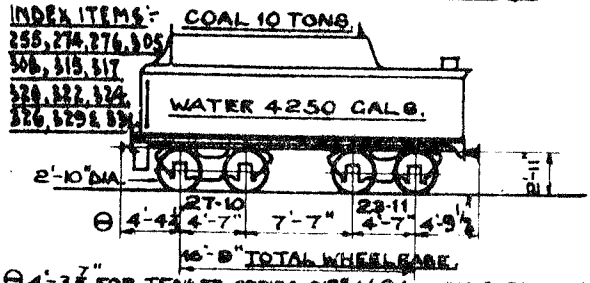
TENDER Nº 1634 CLASSIFIED TYPE XP1 (ITEM 311)

DATE IN SERVICE 1912 - 1925

WEIGHT OF TENDER EMPTY 49,458 LBS.

ENGINE DRAWBAR TO SUIT CLASS OF ENGINE TO WHICH TENDER IS COUPLED. INTERMEDIATE EMERGENCY CHAINS TO DRG. L-570 1/1.

INDEX ITEMS:- 255, 274, 276, 305, 306, 315, 317, 320, 322, 324, 326, 329 & 331.



Θ 4'-3⅞" FOR TENDER SERIES Nos 1494 – 1519 & 1746 – 1760.

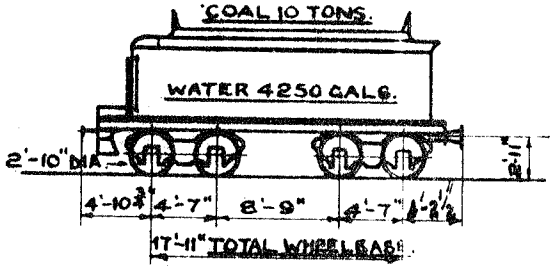
TOTAL WEIGHT OF TENDER 51 TONS 1 CWT. WORKING ORDER.

TYPE LP.

INDEX ITEMS 316, 319, 321, 323, 325 & 327.

DATE IN SERVICE 1918 - 1922.

WEIGHT OF TENDER EMPTY 48,116 LBS.



TOTAL WEIGHT OF TENDER 50 TONS 19 CWT. WORKING ORDER.

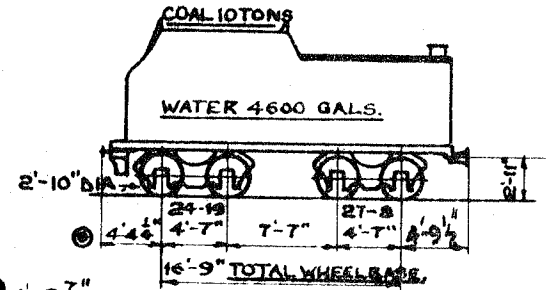
TYPE MR.

INDEX ITEM 318.

DATE IN SERVICE 1912 - 1925.

WEIGHT OF TENDER EMPTY 48,864 LBS.

ENGINE DRAWBAR TO SUIT CLASS OF ENGINE TO WHICH TENDER IS COUPLED. INTERMEDIATE EMERGENCY CHAINS TO DRG L570 1/1.



● 4'-3⅞" FOR TENDER SERIES Nos 1494 – 1519 & 1746 – 1760.

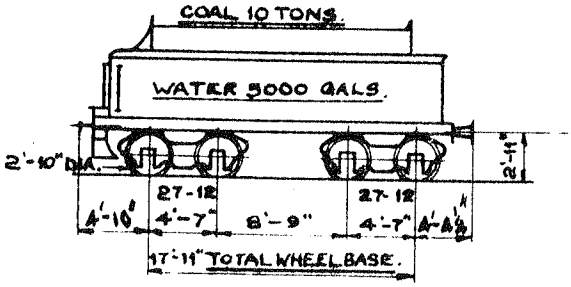
TOTAL WEIGHT OF TENDER 52 TONS 7 CWT. WORKING ORDER.

TYPE XS.

INDEX ITEM 312.

DATE IN SERVICE 1911.

WEIGHT OF TENDER EMPTY 51,248 LBS.



TOTAL WEIGHT OF TENDER 55 TONS 4 CWT. WORKING ORDER.

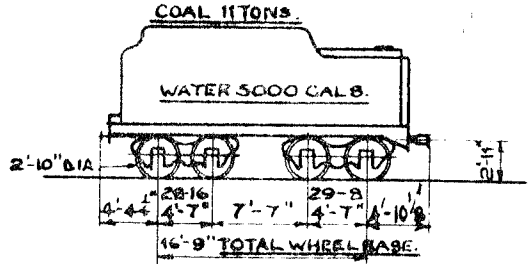
TYPE MS.

INDEX ITEM 291.

DATE IN SERVICE 1928.

WEIGHT OF TENDER EMPTY 55,504 LBS.

ENGINE DRAWBAR TO SUIT CLASS OF ENGINE TO WHICH TENDERS ARE COUPLED.



TOTAL WEIGHT OF TENDER 58 TONS 4 CWT. WORKING ORDER

TYPE SMT.

INDEX ITEMS 253, 298, 306, 330, 332 & 335.

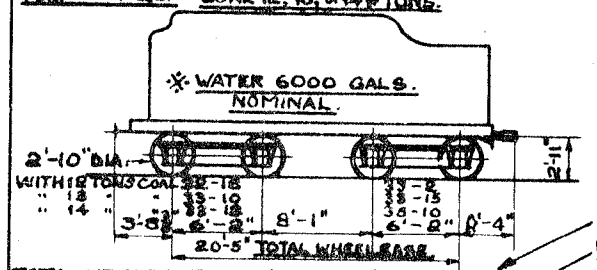
1945-48

DATE IN SERVICE 1919 - 1937. MT1 & MT2

WEIGHT OF TENDER EMPTY 61520 LBS.

✲ WATER CAPACITY TO BE REDUCED WHERE NECESSARY TO ENSURE THAT RAIL WEIGHTS BELOW ARE NOT EXCEEDED.

ENGINE DRAWBAR TO SUIT CLASS OF ENG. TO WHICH TENDERS ARE COUPLED. COAL 12, 13, & 14 TONS.



MT
MT1
MT2

TOTAL WEIGHT OF TENDER (12 T. COAL) 66 T. 0 CWT. WORKING ORDER

✲ " " " " (13 T. COAL) 67 T. 5 CWT. " "

✲ " " " " (14 T. COAL) 69 T. 8 CWT. " "

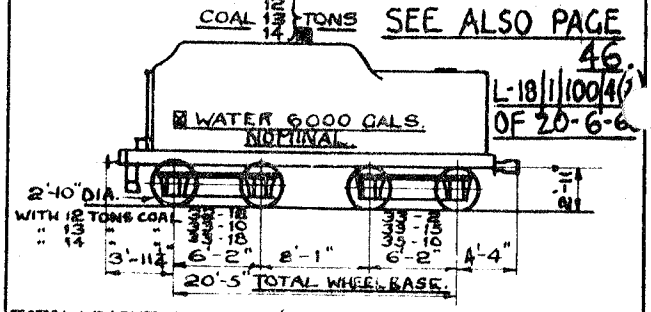
TYPE KT.

INDEX ITEMS 275, 278, 328 & 336.

DATE IN SERVICE 1925 - 1930

WEIGHT OF TENDER EMPTY 68,888 LBS.

■ WATER CAPACITY TO BE REDUCED WHERE NECESSARY TO ENSURE THAT RAIL WEIGHTS BELOW ARE NOT EXCEEDED.



SEE ALSO PAGE 46.

L-18/1/100/4/1 OF 20-6-46

TOTAL WEIGHT OF TENDER (12 T. COAL) 66 T. 0 CWT. WORKING ORDER

■ " " " " (13 T. COAL) 67 T. 5 CWT. " "

■ " " " " (14 T. COAL) 69 T. 8 CWT. " "

TYPE JT.

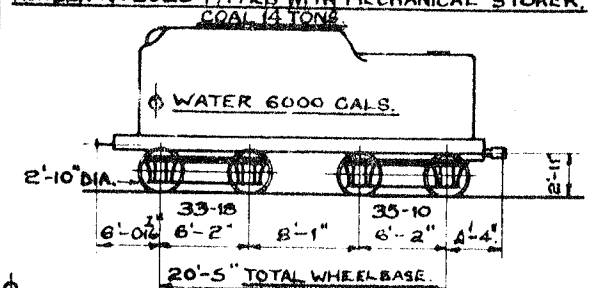
INDEX ITEMS 277 & 337.

DATE IN SERVICE 1935, 1938, 1939, 1944-48

WEIGHT OF TENDER EMPTY 66,416 LBS.

Φ WATER CAPACITY TO BE REDUCED WHERE NECESSARY TO ENSURE THAT RAIL WEIGHTS BELOW ARE NOT EXCEEDED.

TENDER Nº 2929 FITTED WITH MECHANICAL STOKER.



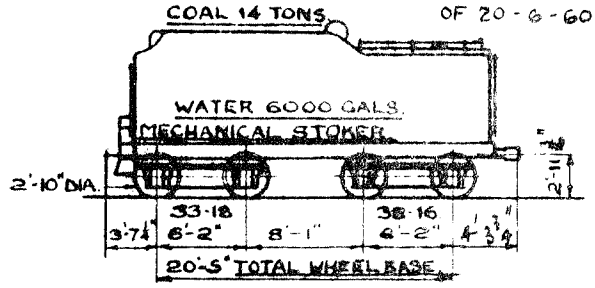
Φ TOTAL WEIGHT OF TENDER 68 TONS 8 CWT. WORKING ORDER.

INDEX ITEM 296. **TYPE HT.** KT

DATE IN SERVICE 1927.

WEIGHT OF TENDER EMPTY 71,488 LBS.

CONVERTED FROM HT MECHANICAL STOKER REMOVED AND MODIFIED DRAWGEAR FOR CONNECTION TO CL. 15CA LOCOMOTIVES, FITTED L18/1/100/4(2) OF 20-6-60

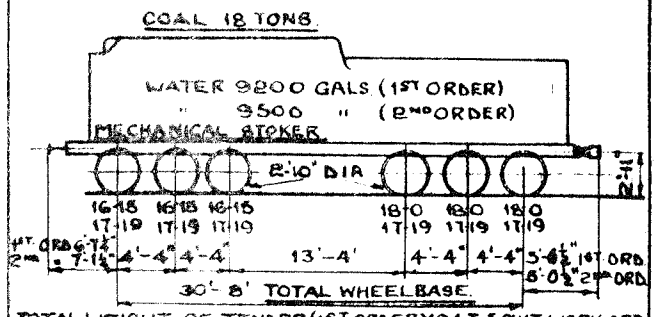


TOTAL WEIGHT OF TENDER 72 TONS 14 CWT WORKING ORDER

INDEX ITEMS 334 & 338. **TYPE EW.**

DATE IN SERVICE 1938-1939

WEIGHT OF TENDER EMPTY 105,928 LBS.

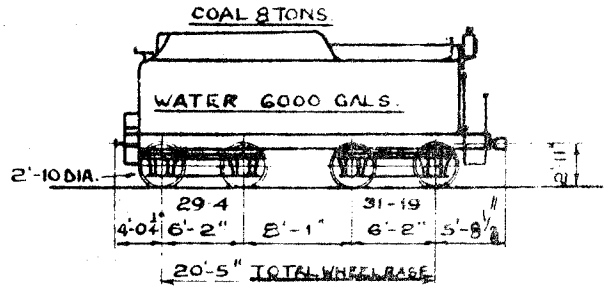


TOTAL WEIGHT OF TENDER (1ST ORDER) 104 T. 5 CWT. WORK. ORD
" " " (2ND ORDER) 107 T. 14 CWT. " " "

INDEX ITEM 256. **TYPE GT.**

DATE IN SERVICE 1929

WEIGHT OF TENDER EMPTY 58,720 LB

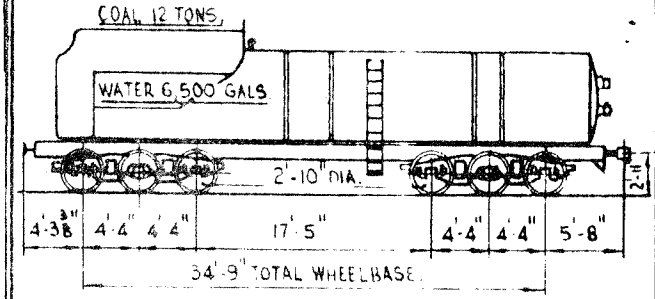


TOTAL WEIGHT OF TENDER 61 TONS 3 CWT WORKING ORDER

INDEX ITEM 339. **TYPE MX.**

DATE IN SERVICE 1948

WEIGHT OF TENDER EMPTY 72,424 LBS.

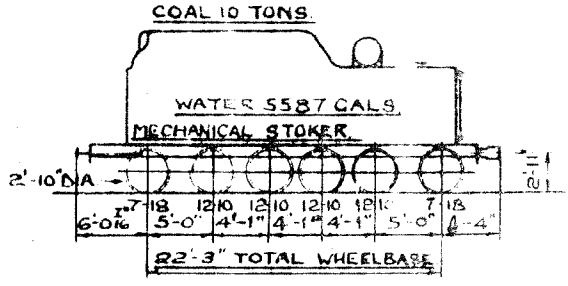


TOTAL WEIGHT OF TENDER 73 TONS 7 CWT WORKING ORDER.

INDEX ITEM 333. **TYPE FT.**

DATE IN SERVICE 1937.

WEIGHT OF TENDER EMPTY 69,122 LBS

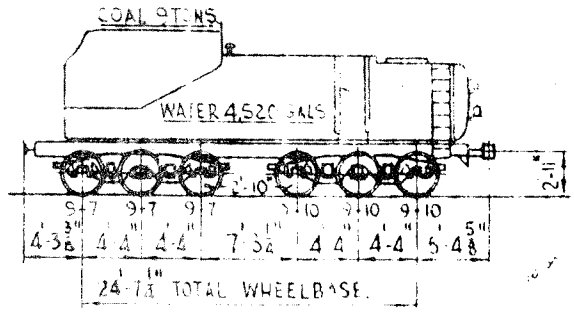


TOTAL WEIGHT OF TENDER 65 TONS 16 CWT. WORKING ORDER

INDEX ITEM 340 **TYPE MY.**

DATE IN SERVICE 1949

WEIGHT OF TENDER EMPTY 61,500 LBS.



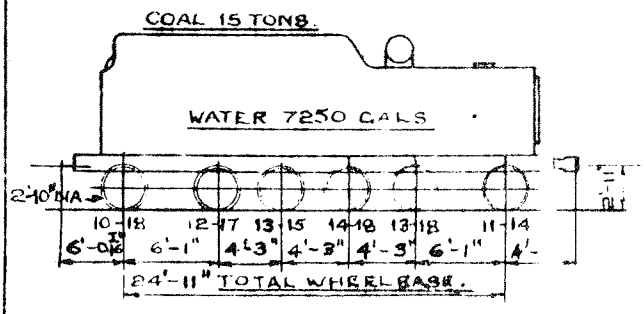
TOTAL WEIGHT OF TENDER 56 TONS 11 CWT WORKING ORDER.

INDEX ITEM 254. **TYPE JV.**

DATE IN SERVICE 1936.

WEIGHT OF TENDER EMPTY 68,620 LBS.

TENDER NOT SUITABLE FOR CLASS 15F ENGINES FITTED WITH MECHANICAL STOKER.

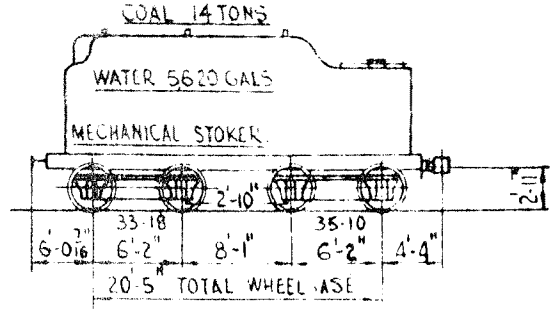


TOTAL WEIGHT OF TENDER 78 TONS 0 CWT. WORKIN , ORDER

INDEX ITEM 337 A. **TYPE ET.**

DATE IN SERVICE 1949

WEIGHT OF TENDER EMPTY 67,648 LBS

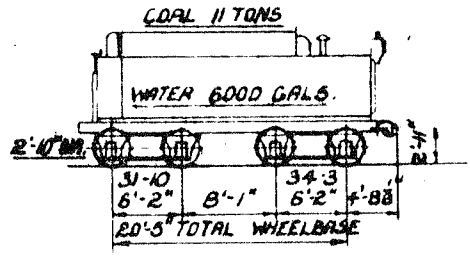


TOTAL WEIGHT OF TENDER 69 TONS 8 CWT WORKING ORDER

INDEX ITEM 256-A. **TYPE JT1.**

DATE IN SERVICE 1947.

WEIGHT OF TENDER EMPTY 62,416 LBS.

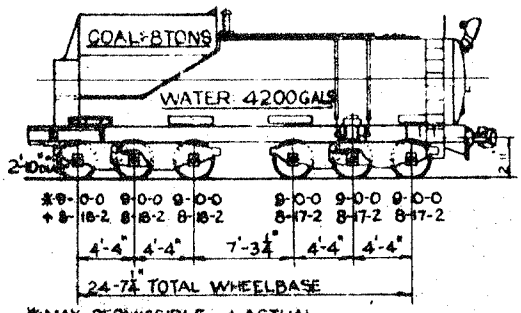


TOTAL WEIGHT OF TENDER 65 TONS 13 CWT WORKING ORDER.

INDEX ITEM 341 **TYPE MY1**

DATE IN SERVICE 1952-1953

WEIGHT OF TENDER EMPTY 105,784 LBS.



*MAX. PERMISSIBLE. + ACTUAL.

TOTAL WEIGHT OF TENDER 53 TON 8 CWT WORKING ORDER

SOUTH AFRICAN RAILWAYS & HARBOURS.

NARROW GAUGE LOCOMOTIVE DIAGRAM BOOK.

2'-0" GAUGE.

2 PAGES & INDEX.

(SGD) A.G. WATSON.
CHIEF MECHANICAL ENGINEER.

S. A. R.

MECHANICAL DEPT.

DRAWING OFFICE PRETORIA.

RETRACED:- E.R.S.F. 31-10-58.

INDEX – NARROW GAUGE LOCOMOTIVES.

CLASS.	PAGE.	ENGINE NUMBERS IN SERVICE AS AT	ENGINES SCRAPPED SOLD, RECLASSIFIED.
NG 10.	1.	~~61.~~	61.
NG 15.	1.	17, 18, 19, 117, 118, 119, 120, 121, 122, 123, 124, 132, 133, 134, 135, 136, 144, 145, 146, 147, 148.	
NGG 11.	2.	~~54~~, 54, 55.	51.
NGG 13.	2.	49, 50, 58, 59, 60, 77, 78, 79, 80, 81, 82, 83.	
NGG 16.	2.	85, 86, 87, 88, 109, 110, 111, 112, 113, 114, 115, 116, 125, 126, 127, 128, 129, 130, 131, 137, 138, 139, 140, 141, 142, 143, 149, 150, 151, 152, 153, 154, 155, 156.	

ENGS SW 40-42

HEATING SURFACE TUBES - 900 SQ FT
" " FIREBOX - 68 "
" " TOTAL - 968 "
SUPERHEATER AREA - 168 "
FIREGRATE " - 16.7 "
114 TUBES 1¾" EXT DIA 14 TUBES 4 23/32" EXT DIA.
13'-1½" BETWEEN TUBEPLATES

ENGS. 71-76

88 SQ FT
" "
94 "
14 "
16.7 "

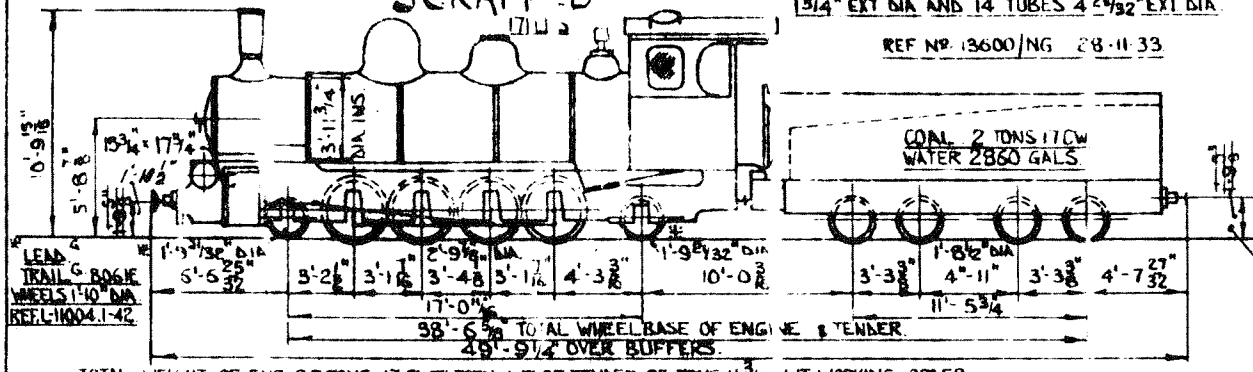
TRACTIVE FORCE (75%) 16610 LBS
DATE IN SERVICE 1922 (EX SW 41)
ENG Nos SW 40-42, 71-76
TOTAL WEIGHT OF ENG. & TENDER EMPTY
MAKERS HENSCHEL & SOHN

CLASS NG 5

NOTE - NGS SW 40-42 ARE IDENTICAL WITH ENGS 71-76 EXCEPT THAT THEY ARE FITTED WITH 112 TUBES 1¾" EXT DIA AND 14 TUBES 4 23/32" EXT DIA

SCRAPPED 1963

REF No. 13600/NG 28-11-33


COAL 2 TONS 17 CW
WATER 2860 GALS
LEAD & TRAIL BOGIE WHEELS 1'-10" DIA
REF L-11004.1-42
17'-0"
98'-6 5/8" TOTAL WHEELBASE OF ENGINE & TENDER
49'-9¼" OVER BUFFERS.

TOTAL WEIGHT OF ENG. 32 TONS 17 CWT. TOTAL WT OF TENDER 25 TONS 11¾ WT WORKING ORDER

L-11/11/NG. 6-5-54. 1'-10" DIA

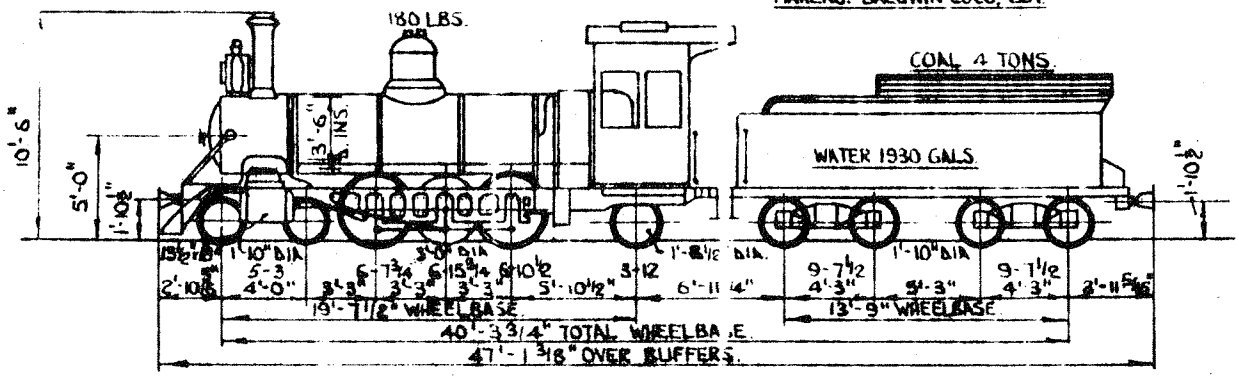
HEATING SURFACE TUBES - 127 SQ.FT.
" " FIREBOX - 36 "
TOTAL - 183 "
FIREGRATE AREA - 14.2 "
119 TUBES 2 1/8" EXT DIA.
12'-4¾" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 12302 LBS.
DATE IN SERVICE 1916
ENG. Nos 61 & 66
TOTAL WEIGHT OF ENG. & TENDER EMPTY - 72850 LBS.
ENG - 57850 LBS.
TENDER - 15000 LBS

CLASS NG.10

MAKERS:- BALDWIN LOCO. CO'Y.

SCRAPPED.

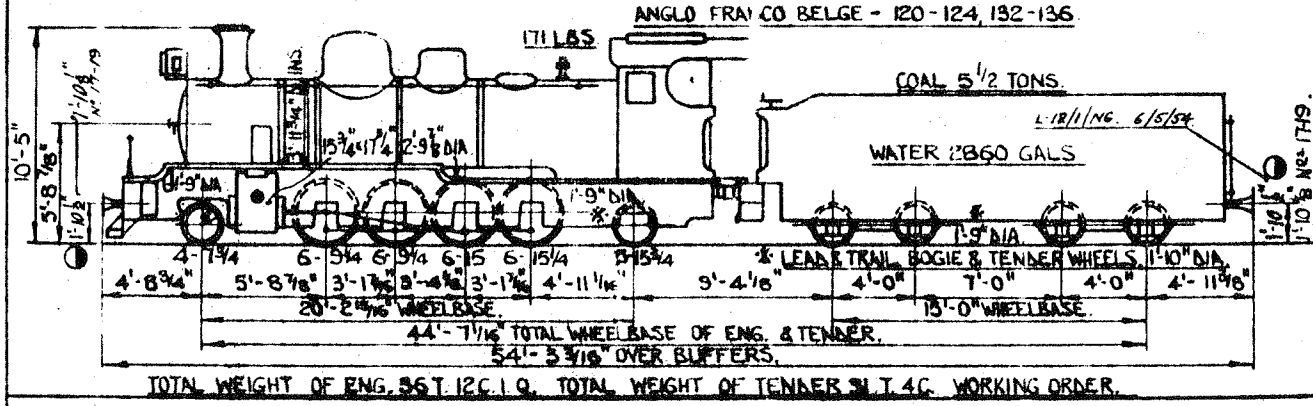


TOTAL WEIGHT OF ENG. 28 TONS. 8 CWT. TOTAL WEIGHT OF TENDER 18 TONS 15 CWT. WORKING ORDER.

HEATING SURFACE TUBES - 728 SQ. FT.
" " FIREBOX - 68 "
TOTAL - 796 "
SUPERHEATER AREA - 180 "
94 TUBES 1¾" EXT. DIA. 15 TUBES 23/32" EXT DIA
13'-1½" BETWEEN TUBEPLATES.
FIREGRATE AREA - 16.7 SQ FT.

TRACTIVE FORCE (75%) - 16610 LBS.
DATE IN SERVICE 1931
ENG. Nos 17, 18, 19, 117-124, 132-136, 144-148.
TOTAL WEIGHT OF ENG. & TENDER EMPTY - 98896 LBS
ENG. 70475 LBS.
TENDER - 28423 LBS.
MAKERS:- HENSCHEL & SOHN. 17-19, 117-119, 144-148.
ANGLO FRANCO BELGE - 120-124, 132-136

CLASS NG.15



TOTAL WEIGHT OF ENG. 56 T. 12 C. 1 Q. TOTAL WEIGHT OF TENDER 31 T. 4 C. WORKING ORDER.

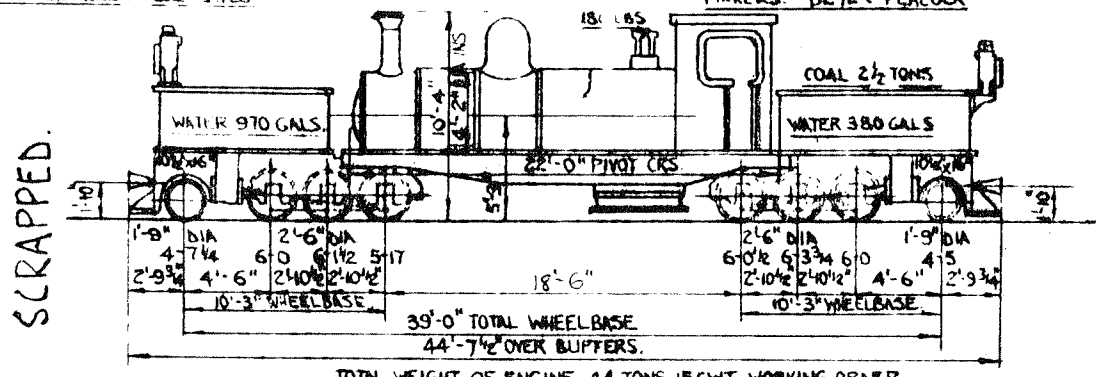
HEATING SURFACE TUBES 839 SQ FT
" " FIREBOX - 81 "
TOTAL - 920 "
FIREGRATE AREA 19.5 "
211 TUBES 1 3/4" EXT DIA.
9'-3 3/8" BETWEEN TUBEPLATES

TRACTIVE FORCE (75%) = 15876 LBS
DATE IN SERVICE 1920
ENG. Nos 51, 52

CLASS NGG.11
1ST ORDER

MAKERS:- BEYER-PEACOCK

SCRAPPED.



TOTAL WEIGHT OF ENGINE 44 TONS 15 CWT WORKING ORDER

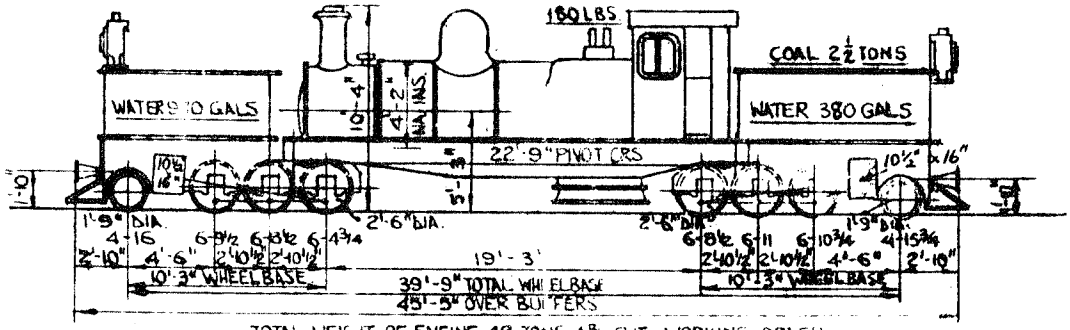
HEATING SURFACE TUBES - 660.9 SQ FT
" " FIREBOX - 80.6 "
TOTAL - 741.5 "
SUPERHEATER AREA - 141.5 "
FIREGRATE AREA - 19.5 "
113 TUBES 1 3/4" EXT. DIA. 13 TUBES 5½" EXT. DIA
9'-3 5/8" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 15876 LBS
DATE IN SERVICE 1925.
ENG. Nos 54, 55.

CLASS NGG.11
2ND ORDER

MAKERS.- BEYER-PEACOCK.

SCRAPPED



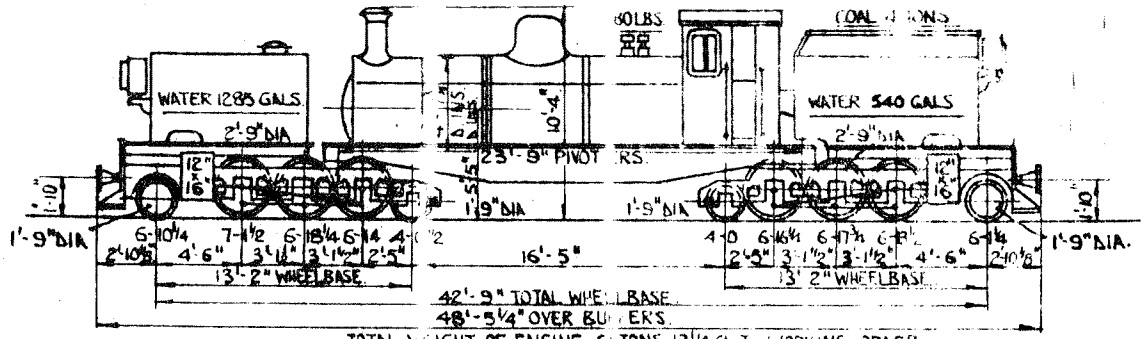
TOTAL WEIGHT OF ENGINE 48 TONS 4 3/4 CWT WORKING ORDER

HEATING SURFACE TUBES - 839 SQ FT
" " FIREBOX - 82.1 "
TOTAL - 921.1 "
SUPERHEATER AREA - 149 "
FIREGRATE - 19.5 "
152 TUBES 1 3/4" EXT. DIA. 15 TUBES 5½" EXT. DIA
9'-3 5/8" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 18850 LBS.
DATE IN SERVICE 1929
ENG. Nos 45, 50, 58-60, 77-83.

CLASS NGG.13

MAKERS: HANOMAG.



TOTAL WEIGHT OF ENGINE 61 TONS 13¼ CWT WORKING ORDER

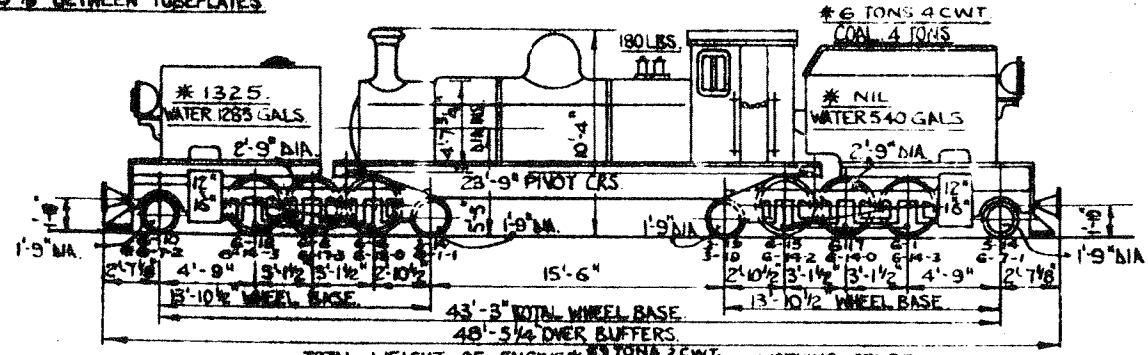
HEATING SURFACE TUBES - 839 SQ.FT.
" " FIREBOX - 82.1 "
TOTAL - 921.1 "
SUPERHEATER AREA. - 149 "
FIREGRATE AREA. - 19.5 "
152 TUBES 1 3/4" EXT. DIA. 15 TUBES 5½" EXT. DIA.
9'-3 5/8" BETWEEN TUBEPLATES.

TRACTIVE FORCE (75%) = 18850 LBS.
DATE IN SERVICE 1937, 1939, 1951, 1959.
ENG. Nos 85-88, 109-116, 125-131, 137-143

CLASS NGG.16

*ENGS NOS. 137-143 ONLY.

MAKERS:- COCKERILL Nos 85-88
BEYER-PEACOCK Nos 109-116, 125-131, 137-143.



TOTAL WEIGHT OF ENGINE *83 TONS 2 CWT. (*61 TONS 8 CWT ON DRIVERS) WORKING ORDER.